



50277-101		
REPURT DOCUMENTATION 1. REPORT NO.	2	3. Recipient's Accession No.
PAGE	<u> </u>	<u> 19891-193730</u>
4. Title and Subtitle Growth in Medicare Physician Se	ervice by Special	ty: 5. Report Date
Implications for Volume Performance S	Standards	April 1991
		6.
		
7. Author(s) John Holahan and Robert Berenson, M.	D.	8. Performing Organization Rept. No.
		3983-02
9. Performing Organization Name and Address The Urban Institute		10. Project/Task/Work Unit No.
		17-C-99473/3-01
Health Policy Center		11. Contract(C) or Grant(G) No.
2100 M Street, N.W.		(c) cooperative agreement
Washington, D.C. 20037		(G) 17-C-99473/3-01
		(3) 11-0-9941979-01
12. Sponsoring Organization Name and Address		13. Type of Report & Period Covered
Health Care Financing Administration		
ORD/OR/DRES/NISB		Final 1985-1988 ·
2 B 13 OakMeadows Bldg		14.
6325 Security Boulevard Baltimore, Maryland 21207		
15. Supplementary Notes		
Uses a type of service taxonomy developed	by Berenson and	Holahan in "Using a New Type-of
Service Classification System to Analyze C	Growth in Medicar	e Physician Expenditure, 1985-
1988," PB91-??????. (3983-01) submitted 5-		
16. Abstract (Limit: 200 words)		
This study examines growth in Medicare physician ser	rvices and allowed cha	rges for eighteen Medicare

This study examines growth in Medicare physician services and allowed charges for eighteen Medicare specialties for CY 1985-1988, identifies the kinds of services that each specialty provides, and examines changes in services and allowed charges for each specialty over time. The specialties examined are general/family practice, internal medicine, cardiology, gastroenterology, psychiatry, other medical specialties, general surgery, ophthalmology, orthopedics, thoracic surgery, urology, dermatology, other surgical specialties, multi-specialty clinics, radiology, pathology and laboratory, and non-physicians. Detailed tables provide information on individual services by CPT4 or HCPCS code, that accounted for at least 1.5 percent of all Medicare allowed charges for that specialty in any year between 1985 and 1988. Only national totals and shares are reported for anesthesiology. Allowed charges for all physicians increased by 12.2 percent per year but this increase is not uniformly distributed across specialties. There was ample evidence of upcoding between 1985 and 1988 but the major growth in Medicare spending is in large part attributed to specialties with access to or control of new technologies. The authors conclude that although specialties could serve as the focus of Medicare volume performance standards in principle, a number of serious problems remain for subnational standards along specialty lines.

17. Document Analysis a. Descriptors



b. Identifiers/Open-Ended Terms
Medicare physician payment; physician services growth; Volume Performance Standards; physician specialty

c. COSATI Field/Group

18. Availability Statemen: release unlimited	19. Security Cisas (This Report) unclassified	21. No. of Pages 7.3
	20. Security Class (This Page) unclassified	22. Price



April 1991

3983-02

The Growth in Medicare Physician Services
By Specialty: Implications for
Volume Performance Standards

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Support for this research was provided by the Health Care Financing Administration to The Urban Institute through Cooperative Agreement No. 17-C-99473/3-01. This Cooperative Agreement supported a number of research projects related to Medicare Volume Performance Standards. The total budget for all of these projects was \$449,419 and represents the sole source of funding.

The authors would like to thank Sherry Terrell, Stephen Zuckerman and Margaret Sulvetta who provided many useful comments on various drafts of this report. Any opinions expressed are those of the authors and do not reflect the opinions of the Health Care Financing Administration, The Urban Institute, or its sponsors.

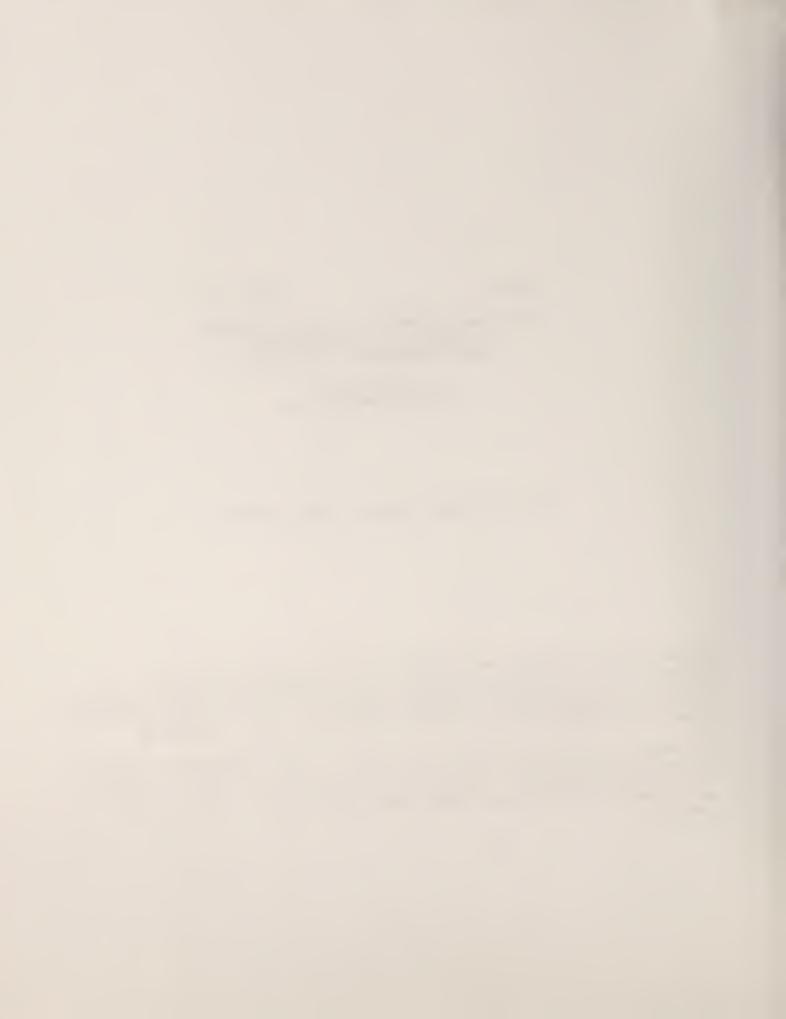
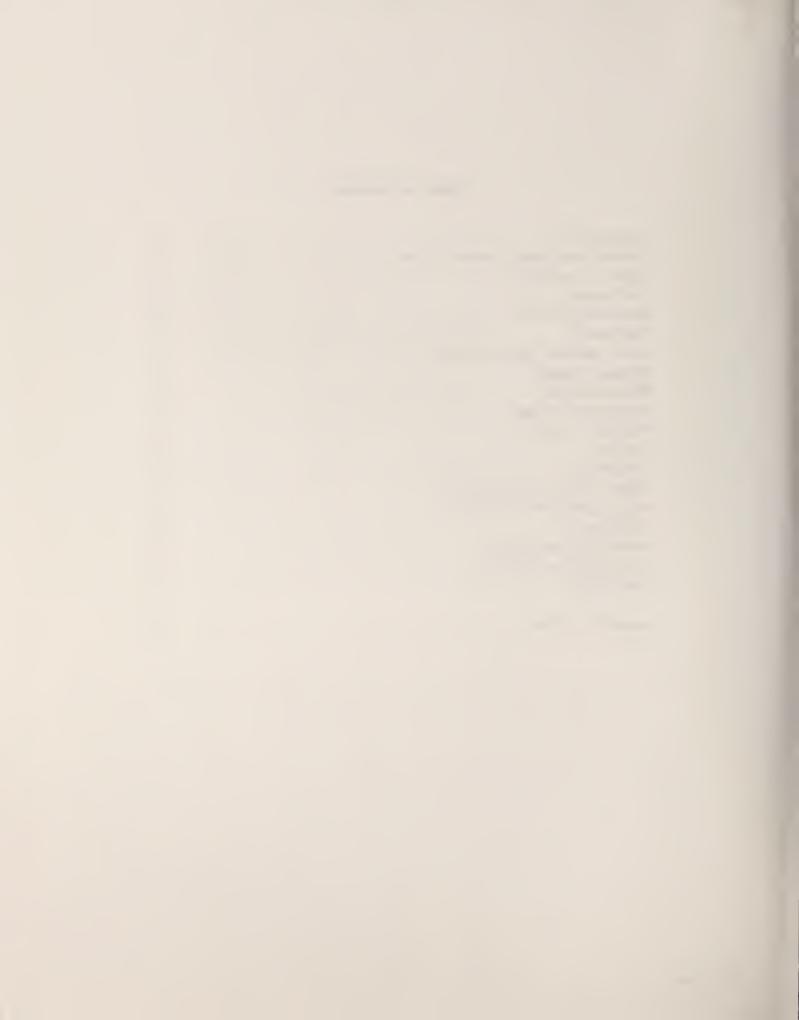


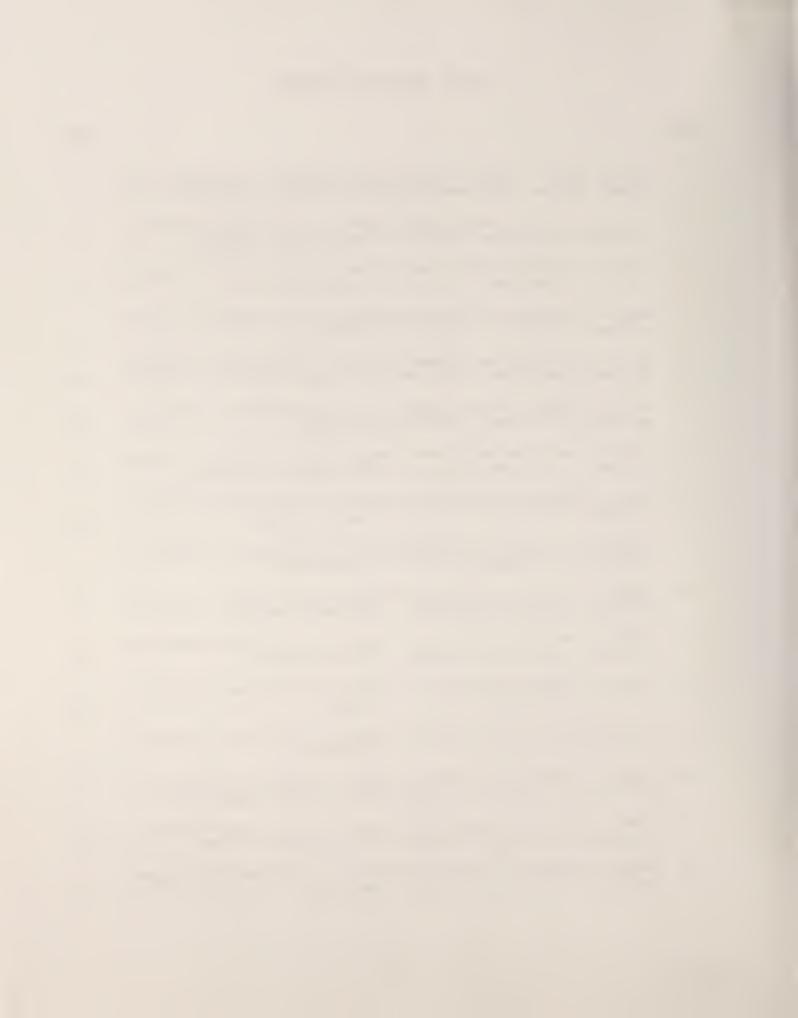
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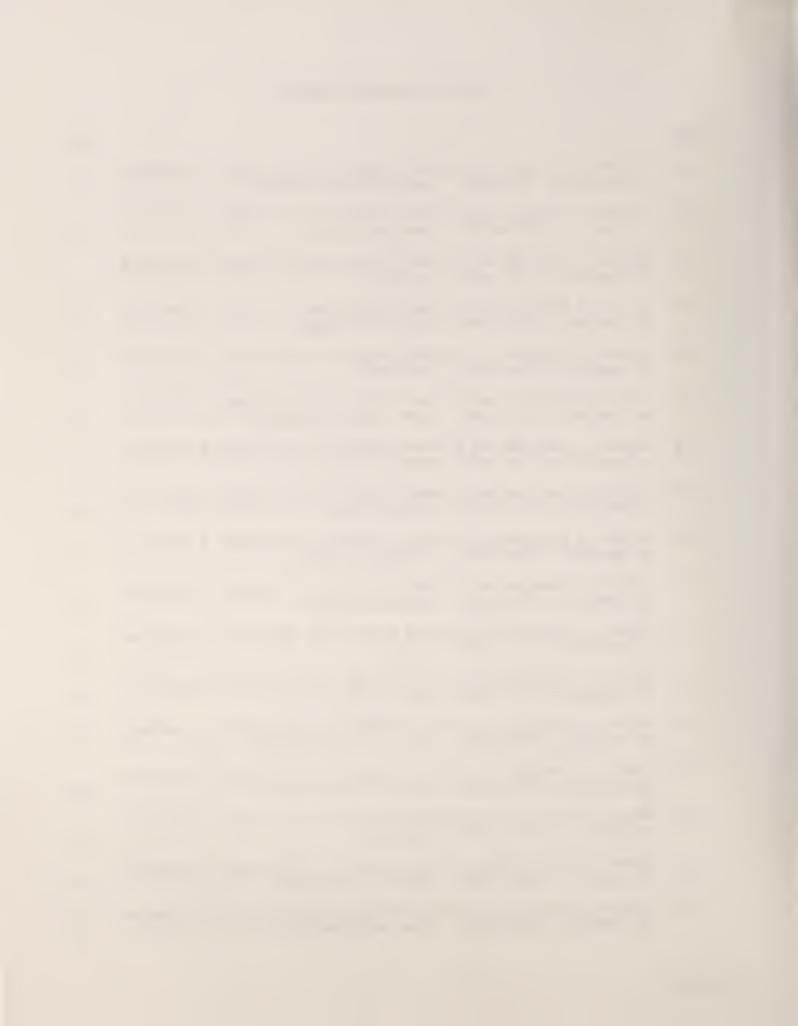


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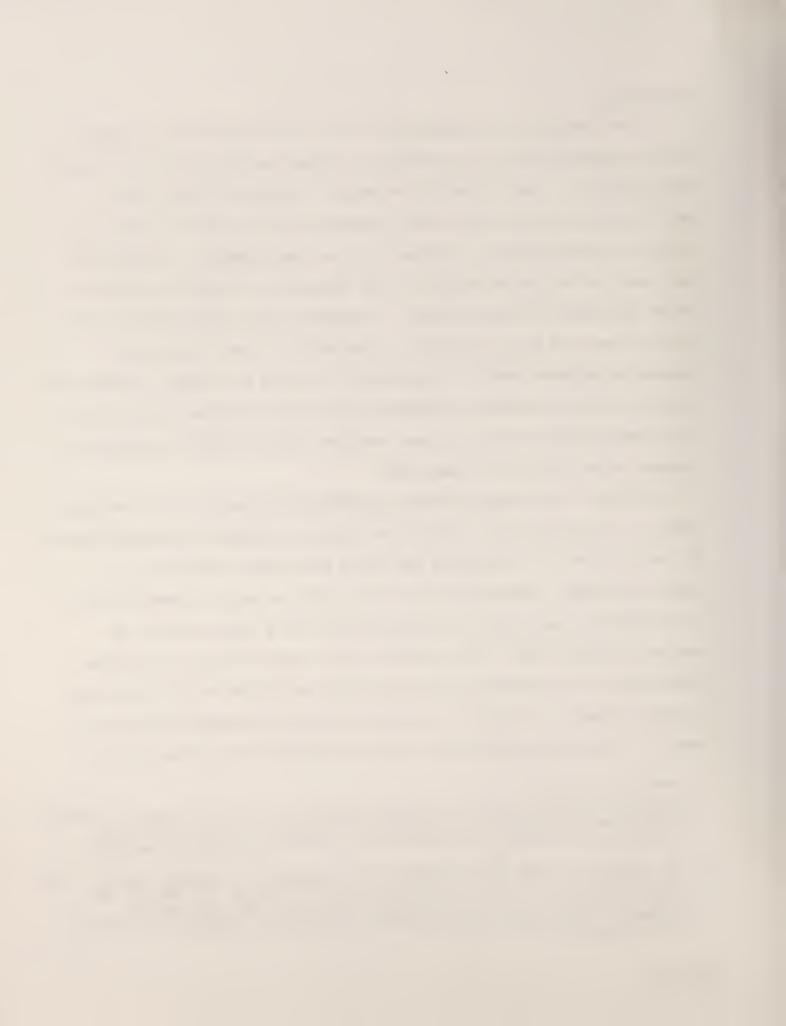
Introduction

In the Omnibus Budget Reconciliation Act of 1989 (OBRA 1989), Congress enacted legislation that will dramatically change how physicians are reimbursed under Medicare. Part of the reform package includes the adoption of a resource-based relative value scale, together with some limits on physicians' ability to charge patients in excess of the new fee schedule. An additional key element of the reform package was the enactment of a policy of Medicare volume performance standards (MVPS). In essence, target rates of growth for physician services are established. If the actual volume of services as measured by Medicare physician expenditures increases at a faster rate than the target, then future updates for physician fees will be reduced below the rate of increase that otherwise would have occurred. Thus, the MVPS are rates of increase and not limits on expenditures.

Initially, the volume performance standards have been set at the national level.² The Congress also required the Secretary of Health and Human Services to study approaches for providing for volume performance standards at a subnational level. Consideration was to be given to smaller geographic units as well as the feasibility of enacting standards on a type-of-service or specialty-specific basis. The problem is that volume performance standards established at the national level provide very weak incentives for physicians to modify behavior. In contrast, volume performance standards that apply at a smaller, more localized geographic area, and perhaps by type-of-service or

OBRA 1989 (PL101-239) Part 2 provisions relating to Part B, Subpart A, General Provisions, Section 6102(a) Physician Payment Reforms amends the Social Security Act by adding new Section 1848 - Payment for Physician Services.

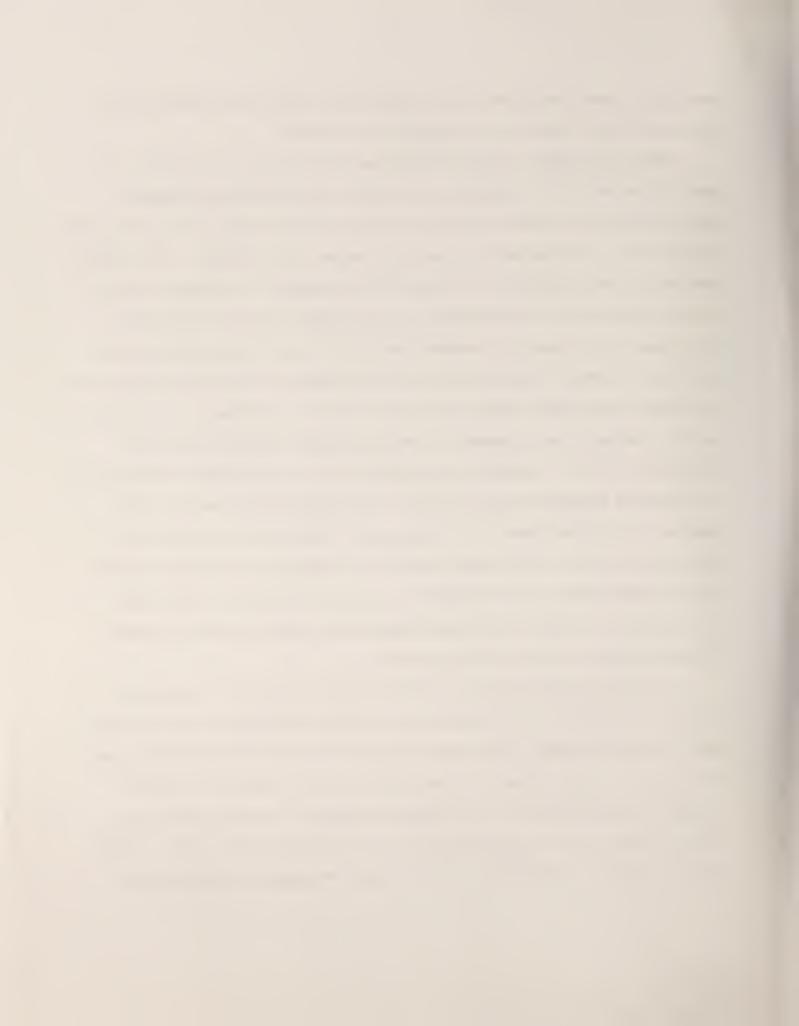
^{2.} The MVPS for FY 1990 is 9.1 percent for all physician services. The MVPS rate of increase for FY 1991 is 7.3 percent for all services, 3.3 percent for surgical services and 8.6 percent for medical services. See Federal Register 54(249) 53819-5381 and 55(250) 53356-53360. Federal FY is October 1 to September 31.



specialty, theoretically would affect physicians more directly and therefore provide stronger incentives to respond to the targets.

Volume performance standards at the specialty level, at least for some specialties, would take advantage of existing institutional arrangements. Specialty societies have existed at the state or local level for many years and could evolve into organizations that could respond to incentives. For example, HCFA could provide specialty societies with information on provision patterns of area physicians in the specialty. If the volume of services provided by physicians in this specialty exceeded the target, and all physicians in the specialty therefore received lower or no fee updates in a subsequent year, the organization would have strong incentives to use this information to identify outliers and apply peer pressure to those physicians responsible for the reductions in fees. Specialties are appropriate for this purpose because there is reasonable homogeneity within specialties in the types of services they provide, and for many specialties there are no close service substitutes. Specialty societies could develop guidelines of appropriate practice patterns and use these guidelines to standardize practice and perhaps reduce volume. There are also a number of serious problems with specialty-specific targets, which we discuss in the concluding section.

This paper examines growth in Medicare physician services and allowed charges by specialty for CY 1985-1988, identifies the kinds of services that each specialty provides, and examines changes in services and allowed charges for each. The paper relies on a new type of service taxonomy to organize services that physicians in each specialty perform. This type-of-service classification system was developed by the co-authors together with a [small] group of physician consultants for the purpose of analyzing the growth of



physician services in Medicare.³ The system organizes physician services into 20 categories as seen in Table 1. The first group is evaluation and management (E & M) services.⁴ These consist of office visits, hospital visits, emergency room services, nursing home and home visits, consultations, and a final category, specialty-specific evaluation and management services. The latter consists of specialty-specific evaluation and management procedure codes that are throughout the Current Procedure Terminology-4 (CPT-4) system. Specialty specific E/M services consist largely of services provided by ophthalmologists, psychiatrists, and pathologists, but include a wide range of other evaluation and management services.

The second major class of services is procedures. Procedures are divided into major and ambulatory. The three major categories are cardiovascular, orthopedic, and general. Ambulatory procedures include eye procedures, other surgical procedures, endoscopies, oncology procedures, and dialysis. Imaging procedures are divided into four categories: standard imaging, which includes routine x-rays and nuclear medicine; advanced imaging, which is comprised of CT scans and magnetic resonance imaging; sonographic imaging; and imaging with a significant procedure, consisting largely of cardiac catheterizations. The final category is tests, which are divided into laboratory tests and other tests; the latter principally includes cardiovascular tests.

The body of this paper describes the growth for each of the major Medicare providing specialties using this type of service system. (Anesthesiology is

^{3.} Robert Berenson and John Holahan, "Using a New Type-of-Service Classification System to Analyze the Growth in Medicare Physician Expenditures, 1985-1988," Urban Institute Working Paper 3983-01.

^{4.} The Berenson-Holahan type-of-service classification system defines E & M services from a clinical perspective. The Medicare payment definition of evaluation and management services is a more limited subset of services consisting of CPT-4 code ranges 90200-90292, 90600-90654, 90699, 90750-90764, 90801-90862, 99062-99065, and 99160-99174.

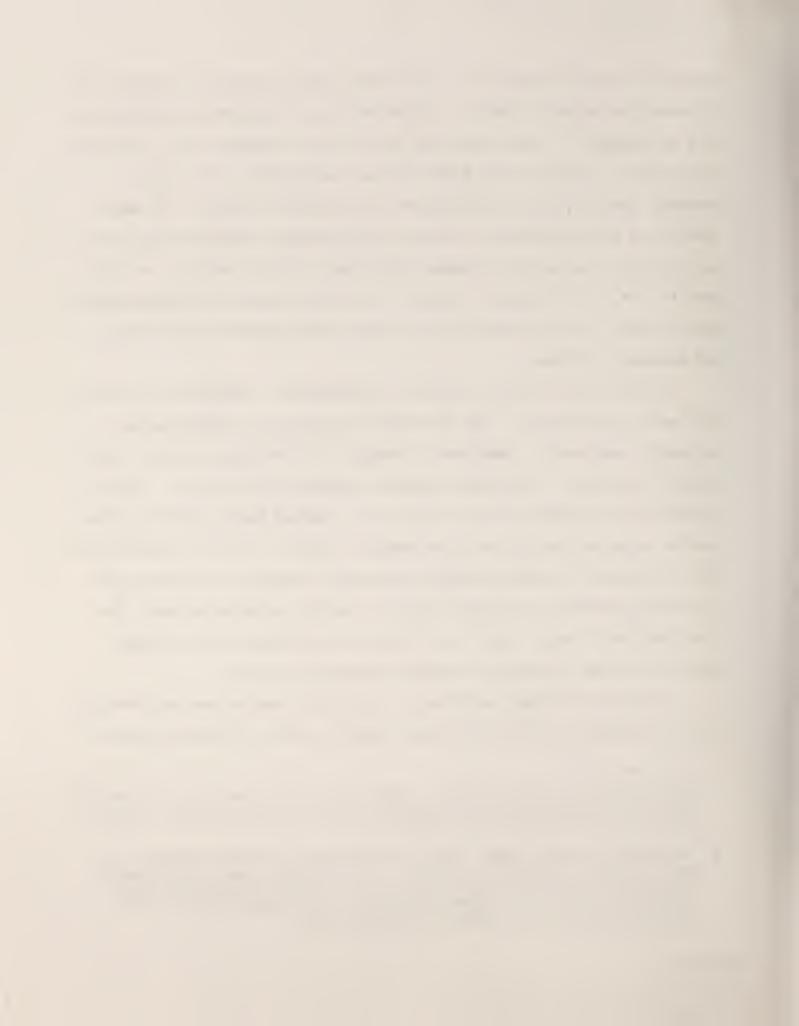
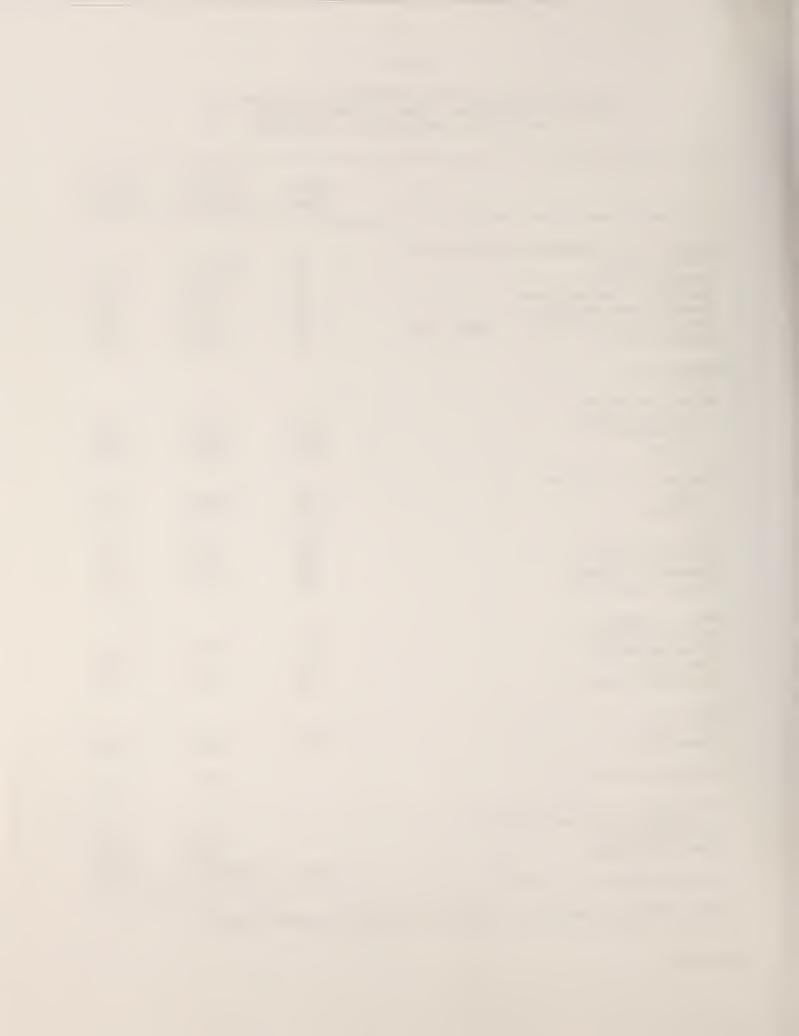


Table 1

Type of Service Classification System
(Numbers of Procedure Codes, Allowed Charges, 1988, and Annual Growth Rates, 1985-1988)

	HCPCS Codes	Allowed Charges (in millions)	% of All Allowed Charges
Evaluation and Management Services (M)			
Office Visits	54	\$3,151.7	11.64%
Hospital Visits	39	3,105.5	11.47%
Emergency Room Services	21	327.9	1.21%
Nursing Home and Home	94	364.3	1.35%
Specialty Specific Eval. & Mgmt. Serv.	221	1,254.0	4.63%
Consultations	21	929.2	3.43%
Procedures (P)			
Major Procedures			
Cardiovascular	474	1,475.6	5.45%
Orthopedic	647	853.4	3.15%
Other	1400	1,609.3	5.94%
Ambulatory Procedures		-	
Eye	208	2,386.7	8.82%
Other	1270	942.5	3.48%
Minor Procedures	992	821.2	3.03%
Oncology Services	171	454.8	1.68%
Endoscopy Procedures	380	1,228.8	4.54%
Dialysis Services	53	233.7	0.86%
Imaging Procedures (I)			
Standard Imaging	1001	1,582.9	5.85%
Advanced Imaging	141	715.0	2.64%
Sonography	96	689.9	2.55%
Imaging/Procedure	259	512.0	1.89%
Tests (T)			
Lab Tests	1510	1,425.8	5.27%
Other Tests	524	1,188.7	4.39%
		2,2000	
Anesthesiology (A)		1,126.7	4.16%
Other (O)			
A-V HCPCS Codes (except M,P,R)		468.8	1.73%
W-Z Local Codes		66.9	0.25%
Other Unassigned		159.5	0.59%
	9,576	\$27,074.8	100.00%

SOURCE: Tabulations from the 1985 and 1988 BMAD procedure files.

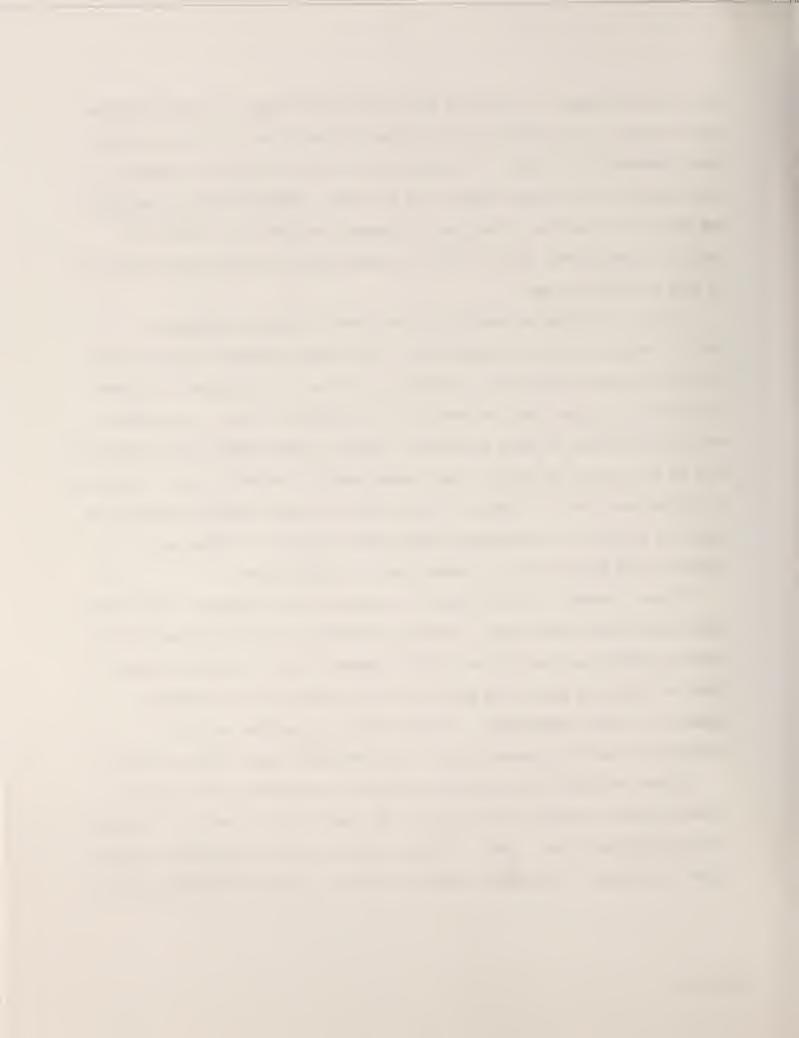


not included because it is outside the scope of this study.) Detailed tables are provided in the appendix which provide information on individual services that accounted for at least 1.5 percent of all Medicare allowed charges for that specialty in any year between 1985 and 1988. (Allowed charges represents the amount that Medicare recognizes for payment purposes; it includes the Medicare reimbursement amount as well as deductibles and coinsurance which must be paid by beneficiaries.)

Figure 1 provides an overview of the growth in allowed charges for Medicare physician service by specialty. The figure provides a useful summary of the information that will be provided in the rest of this paper. Allowed charges for all physicians increased by 12.2 percent per year. The number of enrollees increased by about 2 percent. Medicare reimbursement rates increased by 4 to 4.5 percent per year. Thus, annual growth in excess of, say, 7 percent is for the most part attributable to the growth in the volume and intensity of physician services. (More precise measurement of growth in volume and intensity will be conducted in another part of this project.)

Figure 1 reveals that the growth in Medicare allowed charges is not evenly distributed across specialties. General and family practitioners and internal medicine specialists have had very little nominal growth in allowed charges. These two groups of physicians provide for over half of all the Medicare payments to medical specialists. Other medical specialists, such as cardiologists and gastroenterologists, have had much higher rates of growth.

Allowed charges by all surgical specialties increased by 11.8 percent. However, general surgeons barely grew at the rate of the increase in enrollment and reimbursement rates. Other surgical specialists had considerably higher rates of increase. For example, ophthalmologists, who are the second-ranking

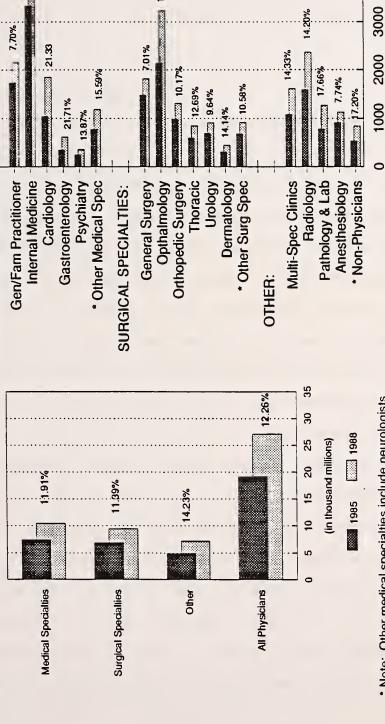


Medicare Physician Services -- Allowed Charge, by Specialty 1985, 1988 Figure

Percentages represent average annual change, 1985-1988

MEDICAL SPECIALTIES:

8.64%



* Note: Other medical specialties include neurologists, allergists, physicial and rehabilitative medicine, nephrologists, pediatrics and geriatrics. Other surgical specialties include otolaryngologists, neurosurgeons, obstetricians, gynecologists, plastic surgeons, hand surgeons and proctologists. Non-physicians consist of chiropractors, optometrists, podiatrists, oral surgeons and portable x-ray suppliers.

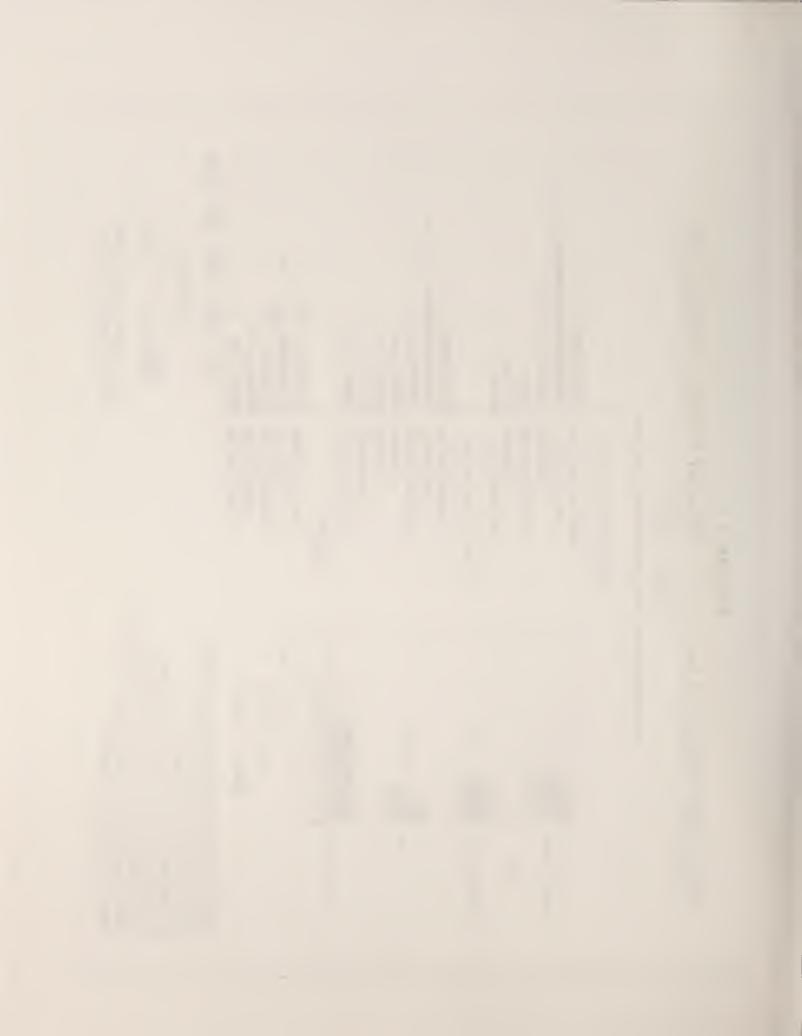
Source: Tabulation from the 1985 and 1988 BMAD procedure files.

1988

1985

(in millions)

4000



specialty in terms of absolute dollars, had rates of increase in allowed charges of 14.8 percent per year. Radiology, reflecting the numerous advances in sophisticated imaging technology, had annual increases in allowed charges of 14.2 percent. Finally, there was an average annual increase of 17.7 percent in pathology and laboratory services, reflecting increases in surgical pathology and selected laboratory tests. The remainder of this paper examines each specialty in more detail.

General and Family Practitioners

Family and general practitioners have been increasingly limiting their practice to primary care services. In the past, in many parts of the country, particularly in rural areas, general practitioners frequently performed surgery and provided obstetrical care. Table 2 reveals that general and family practitioners had \$2.2 billion in allowed charges from Medicare in 1988, with less than 5 percent represented by procedures. General and family practitioners clearly contributed little to the overall growth in Medicare spending between 1985 and 1988. The number of services increased by only 3.1 percent and allowed charges by 7.7 percent per year, barely more than the growth in enrollment and reimbursement rates. Most Medicare revenues of general and family practitioners come from office and hospital visits and other evaluation and management services. There was very little growth in these services during this period. There was a decline in the number of hospital visits and a small increase in allowed charges. The fastest growing type of service for family and general practitioners was emergency room care, which grew at annual rates of 23.1 percent per year during this period. However, the more detailed procedure-level data provided in Table A.2 in the appendix, suggests evidence of upcoding, that is, increasing use of higher paying codes by family and general practitioners. As we will see, this is also true of



Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Family/General Practice

New TOS	os Description	1985 1 Total To Allowed Allo Services Servi (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 1 Total To Allowed Allo Charges Char (in millions)	1988 Total Allowed Charges lions)	% of 1988 Total Allowed Charges	Average Annual Growth
M1 M2 M3 M4 M4 P1 P1 T1 T1	OFFICE VISITS HOSPITAL VISITS EMERGENCY ROOM SERVICES NON-HOSPITAL, NON-SPECIALIST VISITS MAJOR PROCEDURES - OTHER AMBULATORY PROCEDURES - OTHER MINOR PROCEDURES STANDARD IMAGING LABORATORY TESTS OTHER TESTS	33,150.9 18,175.2 2,584.7 5,369.4 67.3 . 308.1 3,113.9 2,038.1 16,160.0	35,618.1 15,748.0 3,801.5 5,989.4 65.3 326.7 3,764.5 2,262.9 24,105.1 3,432.9	34.97% 15.46% 3.73% 6.06% 0.32% 2.22% 23.66%	2.42% -4.67% 13.72% -1.03% 1.97% 6.53% 6.82%	586.1 452.7 72.9 109.3 33.7 30.5 56.5 62.1	748.2 481.7 135.9 138.8 32.4 34.5 77.8 79.8 156.0	34.68% 22.33% 6.30% 6.43% 1.50% 3.60% 7.23%	8.48 8.30 8.30 8.30 8.30 8.30 8.30 8.30 8.3
	OTHER FAMILY/GENERAL SERVICES ALL FAMILY/GENERAL SERVICES	9,095.0	6,751.9	6.63%	3.13%	138.5	147.8	6.85%	2.19%

SOURCE: Tabulations from the 1985 and 1988 BMAD procedure files.

Note: The decline in the residual "other" services category is almost entirely due to reductions in the exceptions/unclassified categorry and in the use of local codes.



other physician specialties. The other particularly important type of service for family and general practitioners is laboratory tests. Laboratory tests comprise 23.7 percent of the services provided by family and general practitioners and accounted for 7.2 percent of allowed charges. The number of laboratory tests increased by 14.3 percent per year and allowed charges by 16.3 percent during this period. Other tests, such as electrocardiograms, were also important, accounting for 5.8 percent of allowed charges; allowed charges for other tests grew by 13.4 percent per year between 1985 and 1988.

Internal Medicine

Internal medicine specialists had \$4.3 billion in allowed charges in 1988, the highest of any physician specialty (Table 3). However, the growth in their allowed charges was relatively slow by comparison with other than GP/FP physicians. The types of services provided by internal medicine bear considerable similarity to that of general and family practitioners. All but three of the top sixteen services provided by internists were evaluation and management services (Table A.3); the exceptions were two electrocardiogram codes and chest x-ray. Not surprisingly, hospital visits are relatively more important (than for general and family practitioners) in terms of services, and clearly more dominant in terms of allowed charges, than are office visits. Also, for internists, consultations account for 5.9 percent of allowed charges, and endoscopies 5.8 percent. As with general and family practitioners, laboratory tests are an important source of revenue accounting for 24.7 percent of services and 6.0 percent of allowed charges. Finally, other tests account for 8.4 percent of allowed charges.

While office and hospital visits account for more than half of internists' revenues, they have been growing at very slow rates. The number of office visits increased by 5.3 percent; hospital visits by less than 1 percent.



Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Internal Medicine

New TOS	OS Description	1985 Total Allowed Services (in th	1985 1988 Total Total Ilowed Allowed rvices Services (in thousands)	% of 1988 Total Allowed Services	Average Annual Growth	1985 1 Total To Allowed Allo Charges Char	1988 Total Allowed Charges	% of 1988 Total Allowed Charges	Average Annual Growth
M M M M M M M M M M M M M M M M M M M	OFFICE VISITS HOSPITAL VISITS NON-HOSPITAL, NON-SPECIALIST VISITS CONSULTATIONS ENDOSCOPY PROCEDURES STANDARD IMAGING SONOGRAPHY LABORATORY TESTS OTHER TESTS OTHER INTERNAL MEDICINE SERVICES ALL INTERNAL MEDICINE SERVICES	32,193.9 36,160.8 3,131.4 2,778.1 2,452.5 431.0 23,775.9 10,452.7 17,617.4	37,599.4 36,880.3 4,230.7 3,289.8 1,041.4 2,686.2 36,580.9 11,884.9 13,252.3	25.39% 24.90% 2.86% 2.22% 0.70% 1.79% 0.46% 24.70% 8.02%	5.31% 0.66% 10.55% 5.80% 4.74% 1.6.74% 1.5.44% 4.37% -9.05%	781.0 1,119.5 88.6 188.6 172.4 87.4 42.3 159.8 275.0 418.0	1,060.8 1,318.0 127.9 251.3 251.3 266.2 108.4 80.4 254.6 359.4 465.8	24.83% 30.85% 5.99% 5.76% 2.54% 1.88% 8.41% 10.00%	10.75\$ 13.02\$ 11.0.03\$ 12.62\$ 7.43\$ 23.90\$ 16.78\$ 9.34\$

SOURCE: Tabulations from the 1985 and 1988 BMAD procedure files.

Note: The decline in the residual "other" services category is almost entirely due to reductions in the exceptions/unclassified category and in the use of local codes.

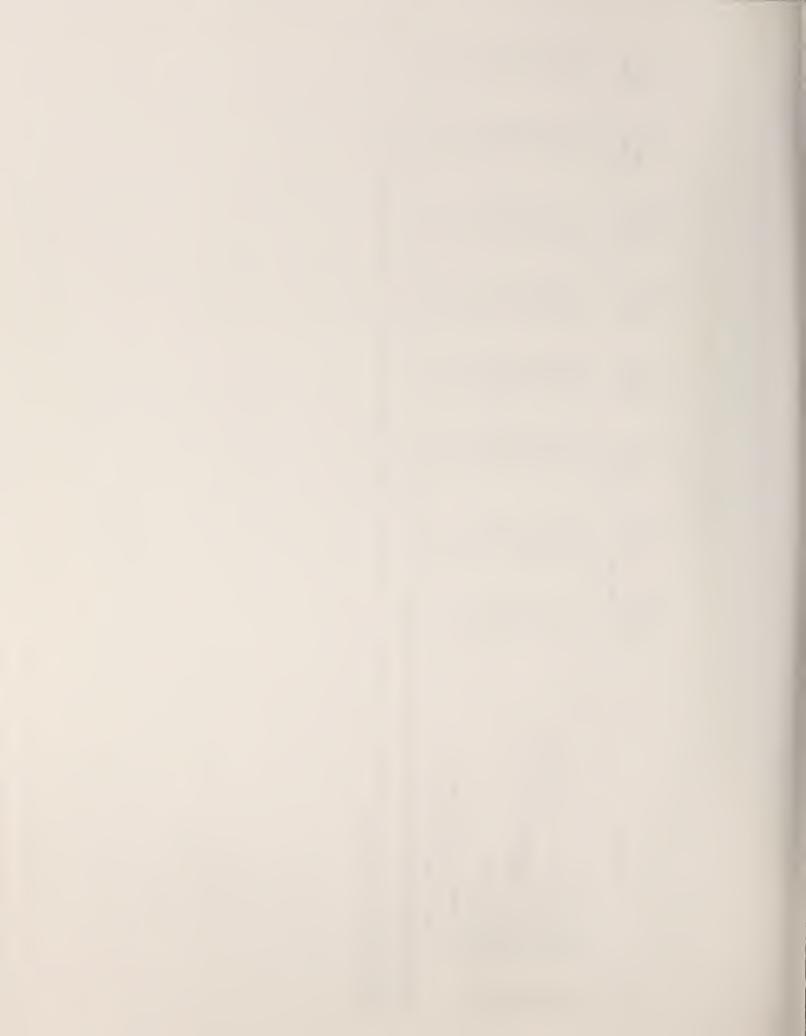


Table A.3 also indicates evidence of upcoding, the increasing use of higher procedure codes among internists. The allowed charges for most types of services provided by internists did not increase at particularly rapid rates. The exceptions are endoscopies, which increased by 12.6 percent, and sonographic imaging procedures, which increased by 23.9 percent (although accounting for only 1.9 percent of revenue).

Cardiology

Cardiology, as mentioned earlier, is one of the fastest growing specialties in Medicare, with allowed charges increasing at annual rates of 21.3 percent (Table 4). Allowed charges for cardiologists amounted to \$1.8 billion in 1988, making cardiology the fourth highest in terms of Medicare payments. Office and hospital visits together comprise about 43 percent of all services provided by cardiologists. Other tests comprise another 32.2 percent of services. However, distribution of charges is very different. Hospital visits account for 20.6 percent of allowed charges. Cardiovascular procedures accounted for 15.3 percent of cardiologists' allowed charges, much attributable to coronary angioplasty. Sonographic imaging, e.g., echocardiography, accounted for 10.4 percent. Imaging/procedures, primarily cardiac catheterizations, accounted for 13.9 percent. Other tests—electrocardiograph monitoring and other cardiovascular tests—accounted for 17.8 percent.

Allowed charges for all of these types of services have increased at double-digit rates. Allowed charges for office and hospital visits increased at 17 and 15 percent, respectively. Cardiovascular procedures, again primarily due to the growth in coronary angioplasty, increased at 21.9 percent.

Sonographic imaging increased at 38.2 percent. Imaging/procedures increased by 29.7 percent and other tests by 21.5 percent.

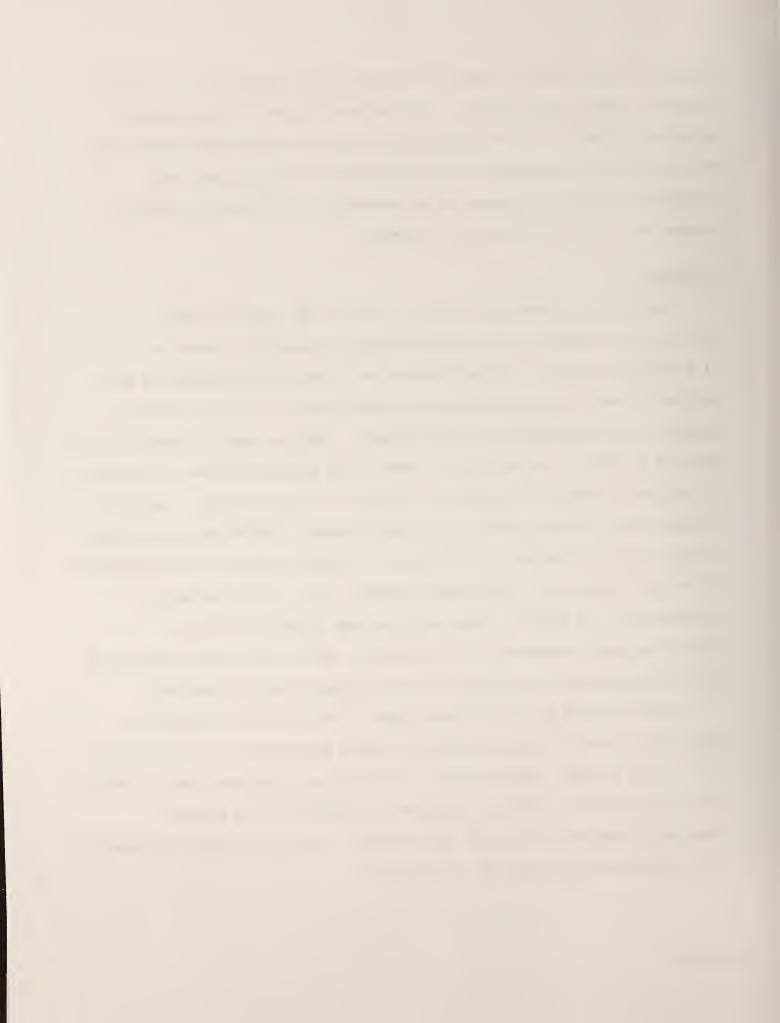
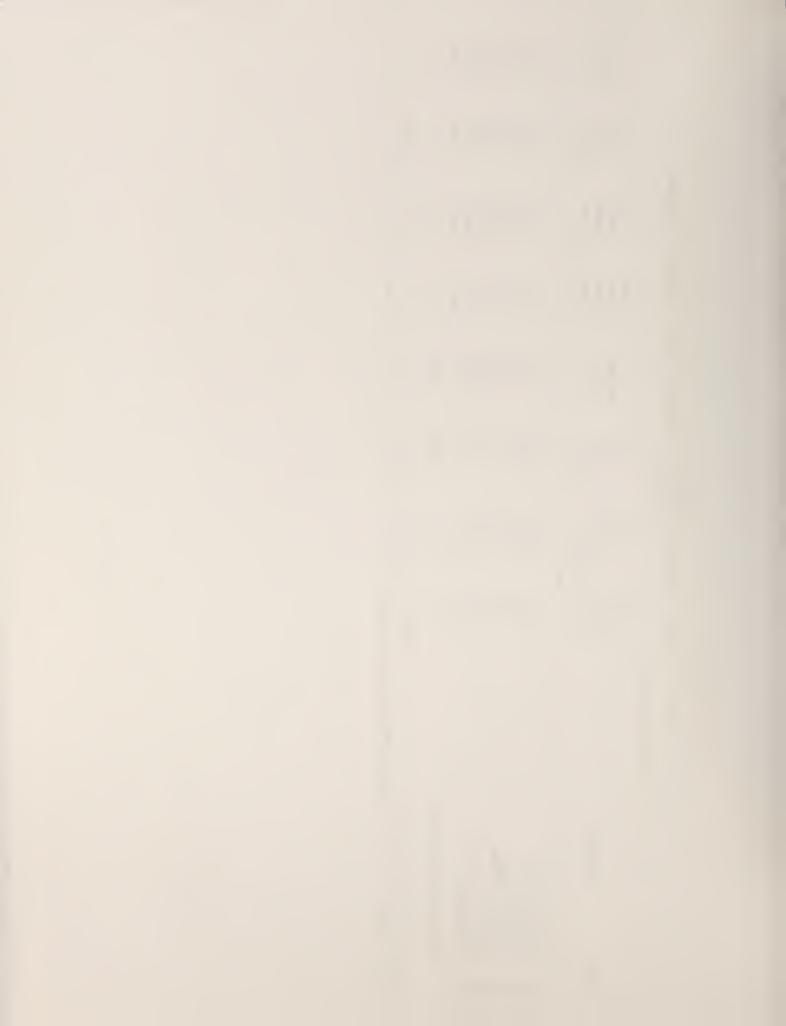


Table 4 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Cardiology

ļ									
		1985	1988	% of		1985	1988	% of	
		Total	Total	1988	Average	Total	Total	1988	Average
		Allowed	Allowed	Total	Annual	Allowed	Allowed	Total	Annual
New TOS	TOS Description	Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
		(in thousands	usands)	Services		(in millions)	llions)	Charges	
M1	OFFICE VISITS	4,061.3	5,663.8	16.52%	11.72%	111.9	179.1	9.70%	16.99%
M2	HOSPITAL VISITS	7,233.3	9,209.2	26.87%	8.38%	250.7	380.9	20.62%	14.96%
9W	CONSULTATIONS	970.4	1,297.2	3.78%	10.16%	73.0	113.0	6.11%	15.67%
PIC	CARDIOVASCULAR	305.3	386.7	1.13%	8.20%	156.1	282.5	15.30%	21.87%
11	STANDARD IMAGING	364.8	511.0	1.49%	11.89%	17.0	40.6	2.20%	33.65%
13	SONOGRAPHY	793.8	1,696.8	4.95%	28.82%	73.1	192.9	10.44%	38.19%
14	IMAGING/PROCEDURES	233.1	408.8	1.19%	20.59%	117.5	256.1	13.86%	29.66%
T2	OTHER TESTS	7,705.6	11,033.1	32.19%	12.71%	183.3	328.9	17.80%	21.51%
				_					
	OTHER CARDIOLOGY SERVICES	2,603.6	4,071.1	11.88%	16.07%	51.8	73.4	3.97%	12.32%
	ALL CARDIOLOGY SERVICES	24,271.3	34,277.8	100.00%	12.19%	1,034.3	1,847.3	100.00%	21.33%



Gastroenterology

Gastroenterology is the fastest growing specialty in Medicare, with allowed charges amounting to \$608.8 million in 1988 (Table 5). The growth in allowed charges for gastroenterologists averaged 21.7 percent between 1985 and 1988. Most of this growth is accounted for by the increasing availability of fiber-optic procedures. Even though gastroenterology is a medical specialty, most of the revenues by this specialty come from procedures. Endoscopies account for 65.9 percent of all allowed charges, whereas gastroenterologists received only 12.4 percent of their revenues from hospital visits and another 8.4 percent from consultations, much lower than for other medical specialists. The growth in allowed charges from endoscopies for gastroenterologists was 25.6 percent per year. The large increases were consistent across several gastroenterological procedures, i.e., upper GI endoscopies, colonoscopies, and sigmoidoscopies.

Psychiatry

Psychiatrists had \$350.4 million in allowed charges in 1988 (Table 6). Allowed charges for psychiatrists increased at almost 14 percent per year. Most of the revenues of psychiatrists came from specialist evaluation and management services, that is, psychotherapy and psychiatric diagnostic exams. Specialist evaluation and management services accounted for 64.4 percent of psychiatrists' services and 62.2 percent of allowed charges. These services increased by 7.6 percent per year, while allowed charges increased by 14.4 percent. Psychiatrists also had increases in allowed charges for hospital visits and consultations of more than 13.0 percent per year. The more rapid increase in allowed charges relative to growth rates for services reflects increases in average charges; there was less evidence of upcoding than for



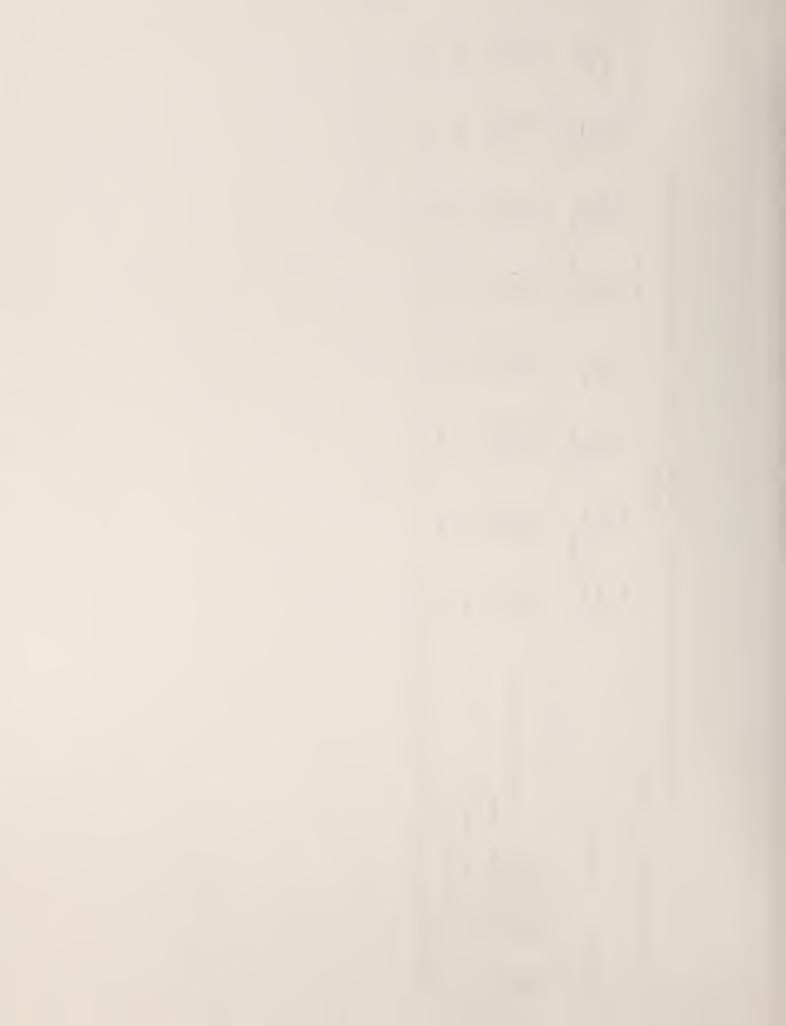
Table 5 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Gastroenterology

New TOS	TOS Description	1985 I Total To Allowed Allo Services Servi (in thousands)	1988 Total Allowed Services sands)	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total Allowed Charges (in mil	1985 1988 otal Total owed Allowed rges Charges (in millions)	% of 1988 Total Allowed Charges	Average Annual Growth
M1	OFFICE VISITS HOSPITAL VISITS	964.2	1,369.5	20.45%	12.41%	28.1	44.6	7.33%	16.69%
9W	CONSULTATIONS	395.3	606.5	9.06%	15.34%	29.9	50.8	8.35%	19.31%
P6	ENDOSCOPY PROCEDURES	9 / 1 . 2	1,129.3	10.80%	18.948	5.707	401.0		\$10.67
	OTHER GASTROENTEROLOGY SERVICES	1,057.8	1,429.9	21.35%	10.57%	25.1	36.8	6.05%	13.65%
	ALL GASTROENTEROLOGY SERVICES	4,754.6	6,697.7	100.00%	12.10%	337.6	608.8	100.00%	21.71%
SOUR	SOURCE: Tabulations from the 1985 and 1988 BMAD procedur	dure files.							



Table 6 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Psychiatry

		1985	1988	% of		1985	1988	% of	
		Total	Total	1988	Average	Total	Total	1988	Average
		Allowed	Allowed	Total	Annua1	Allowed	Allowed	Total	Annua1
New TOS	FOS Description	Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
		(in thousands)	ısands)	Services		(in millions)	lions)	Charges	
Σ	OFFICE VISITS	320.3	316.0	3.69%	-0.45%	7.2	8.7	2.48%	6.45%
. C.W	HOSPITAL VISITS	1,421.5	1,677.0	19.57%	5.66%	51.0	74.9	21.39%	13.71%
×	SPECIALIST EVALUATION & MANAGEMENT SERVICES	4,422.3	5,514.7	64.35%	7.64%	145.7	217.8	62.17%	14.36%
W.	CONSULTATIONS	197.5	245.0	2.86%	7.448	14.4	21.0	5.99%	13.27%
P1	MAJOR PROCEDURES - OTHER	87.3	6.68	1.05%	0.98%	5.5	6.2	1.78%	4.36%
	· OTHER PSYCHIATRY SERVICES	588.4	726.8	8.48%	7.29%	13.6	21.7	6.20%	16.94%
	ALL PSYCHIATRY SERVICES	7,037.4	8,569.3	100.00%	6.79%	237.3	350.4	100.00%	13.87%



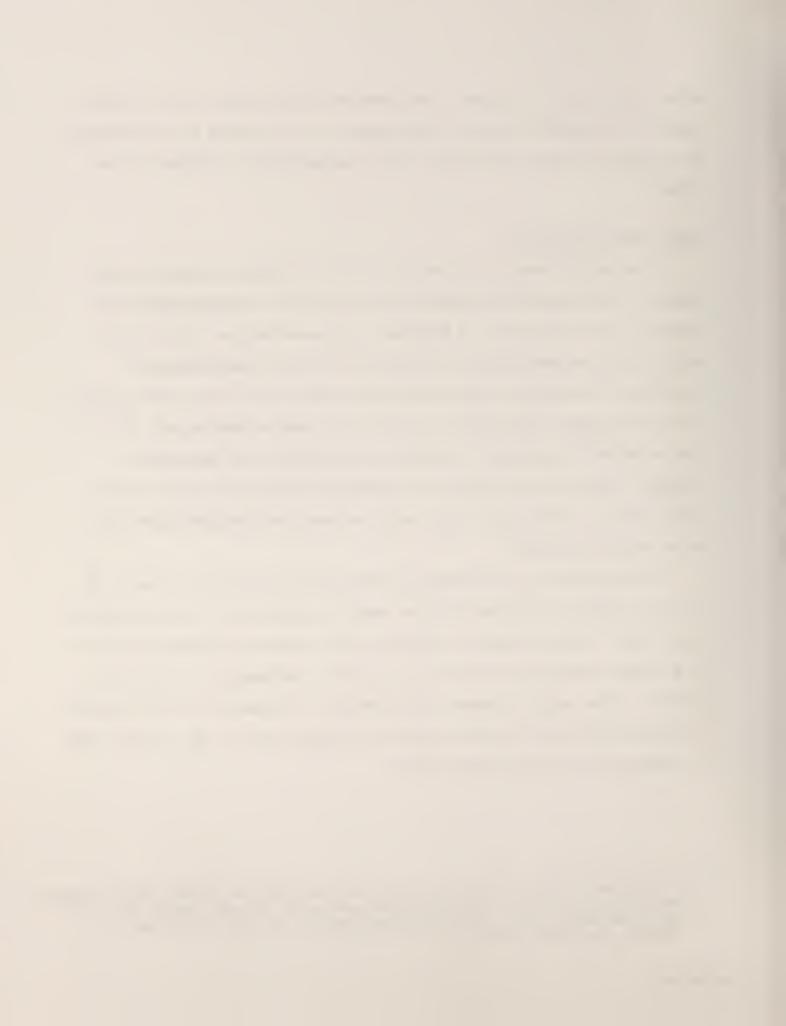
other specialties.⁵ The faster than average annual growth rate in allowed charges for psychiatry could be attributable to the increase in the diagnoses of Alzheimer's disease, depression, and other psychiatric problems of the elderly.

Other Medical Specialists

Other medical specialists had \$1.2 billion in allowed charges in 1988 (Table 7); 32.3 percent of allowed charges for other specialists came from hospital visits and another 14.8 percent from consultations. This is not surprising since other medical specialists including endocrinologists, neurologists, oncologists, and nephrologists tend to deal with sicker patients who are frequently hospitalized. As with other medical specialists, there is also evidence of upcoding in the office and hospital visit categories. Finally, other tests accounted for 9.7 percent of revenues of other medical specialists; for this group, other tests include electroencephalograms and nerve conduction studies.

Allowed charges of other medical specialists grew by 15.6 percent. All the major service categories for other medical specialists increased at double-digit rates. Allowed charges for office visits increased at annual rates of 17.5 percent; consultations grew by 14.5 percent and hospital visits by 15.0 percent. Other tests increased by 22.9 percent. Allowed charges for dialysis procedures grew by 21.2 percent; much of this may be due to use of local codes or underreporting in the earlier years.

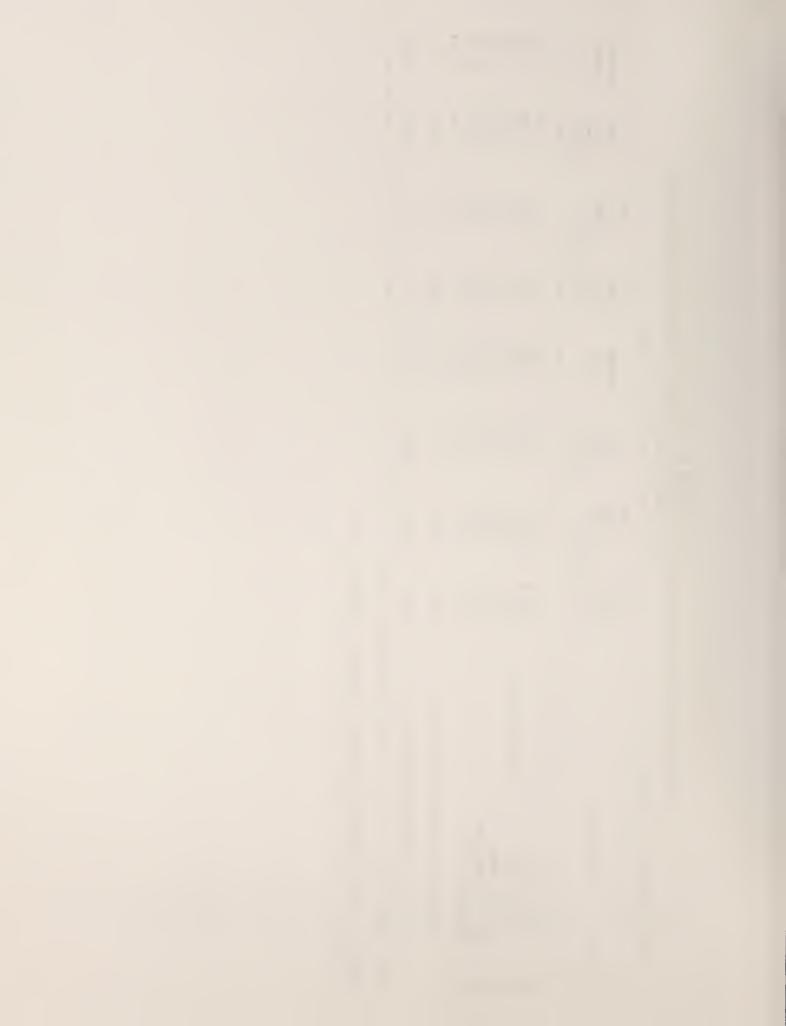
^{5.} In addition, the HCFA special charge limit on outpatient mental health services has been permitted to increase from 50 percent of allowed charges over this same time period. The latter could account for the faster increase in charges relative to services.



Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Other Medical Specialty Table 7

		1985	1988	% of		1985	1988	% of	
		Total	Total	1988	Average	Total	Total	1988	Average
		Allowed	Allowed	Total	Annual	Allowed	Allowed	Total	Annua1
New TOS	os Description	Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
		(in tho	(in thousands)	Services		(in millions)	lions)	Charges	
2	OFFICE UTSITES	3.218.5	4,467.2	15.16%	11.55%	84.6	137.3	11.60%	17.49%
M CM	HOSDITAL VISITS	7,816.5	10,066.3	34.16%	8.80%	251.4	381.9	32.28%	14.95%
7 Y	SPECIALIST EVALUATION & MANAGEMENT SERVICES	785.6	1,465.0	4.978	23.09%	13.3	27.5	2.32%	27.54%
2 Y	CONSTITUTE	1,538.8	2,020.5	6.86%	9.50%	116.9	175.4	14.83%	14.48%
50	MINOR PROCEDURES	676.3	1,016.8	3.45%	14.56%	22.7	37.3	3.15%	17.97%
90	FIND SCOPY PROCEDURES	95.8	125.9	0.43%	9.51%	25.9	39.3	3.32%	14.92%
2 2	DINCOCOL TROCEDONES	7.171.7	2,208.4	7.50%	-7.29%	83.7	149.1	12.61%	21.22%
T2	OTHER TESTS	2,361.3	4,127.5	14.01%	20.46%	62.0	115.0	9.73%	22.91%
		6	6	600		200	130 1	10 158	4 4 4 9
	OTHER MEDICAL SPECIALTY SERVICES-other	3,845.2	3,966.8	13.40%	1 · 0 4 %	100.4	1.021	\$CT-0T	
	ALL MEDICAL SERVICES SPECIALTY-other	23,109.7	29,464.5	100.00%	8.43%	765.9	1,182.9	100.00%	15.59%
	THE THE THE TOTAL TORS BOAT DESCRIPTIONS OF THE TOTAL TORS OF THE TOTAL TORS OF THE TOTAL TORS OF THE TOTAL TORS	codure files							

Note: Other medical specialties includes neurologists, allergists, physical and rehabilitative medicine, nephrologists, pediatrics and geriatrics.



General Surgery

General surgeons accounted for \$1.8 billion in Medicare allowed charges in 1988 (Table 8). However, they had the lowest rate of growth of allowed charges of any specialty. More than 50 percent of services provided by general surgeons are evaluation and management services, though allowed charges are considerably less. Approximately 35 percent of allowed charges of general surgeons are for major procedures/other. Another 19.4 percent comes from cardiovascular surgery. General surgeons have significant amounts of billings for thromboendarterectomies, coronary artery bypass grafts, and aneurism repairs; this suggests that at least in some areas of the nation, cardiovasuclar surgeons are grouped with general surgeons. Finally, 13.2 percent comes from ambulatory procedures/other.

None of the E/M or various procedure categories have grown at particularly rapid rates except for endoscopic procedures. The number of office visits has increased by only 1.1 percent per year, while hospital visits declined by almost 6 percent per year. Allowed charges for office visits grew by only 7.5 percent and hospital visits by 0.6 percent per year. General surgeons, however, are increasingly performing endoscopy procedures. Allowed charges for endoscopies performed by general surgeons increased at average annual rates of 14.5 percent. Among individual procedures, the number of mastectomies increased by 11.4 percent and allowed charges for mastectomies grew by 14.5 percent. This most likely reflects increased diagnoses of breast cancer. Most other major procedures performed by general surgeons (e.g., cholecystectomies, hernia repairs, and colectomies) did not experience significant growth.

Vascular surgeons are included under general surgery; thus, thromboendartorectomy and aneurism repair are important procedures for general surgeons. In some

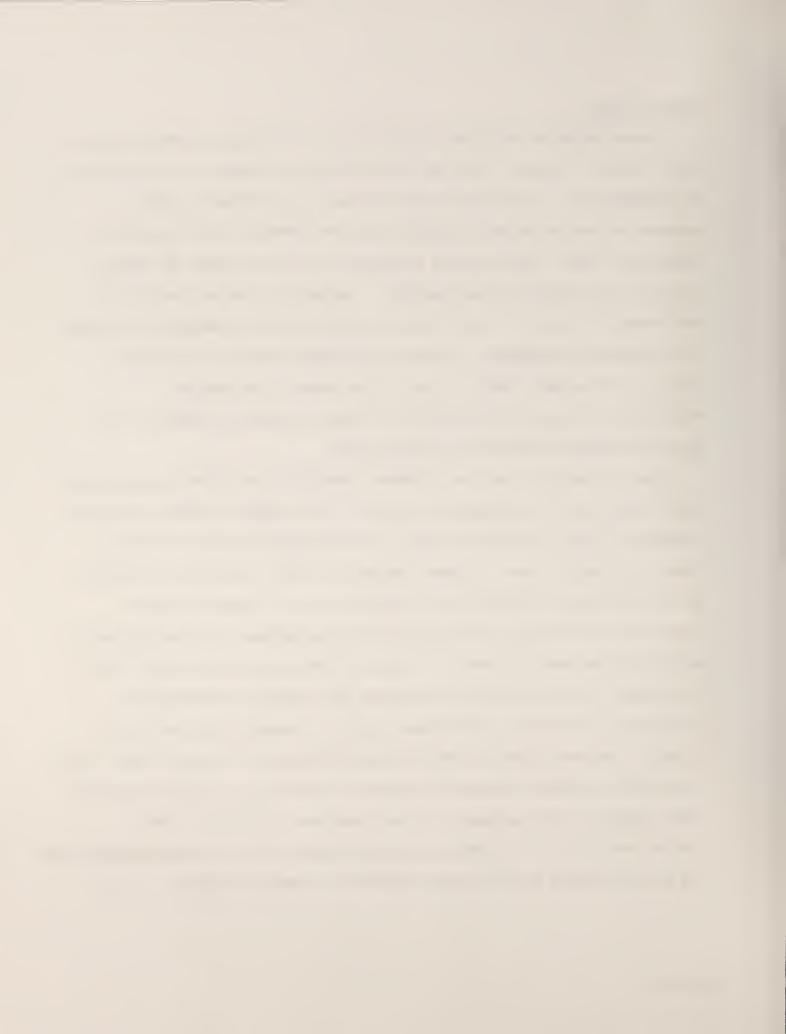
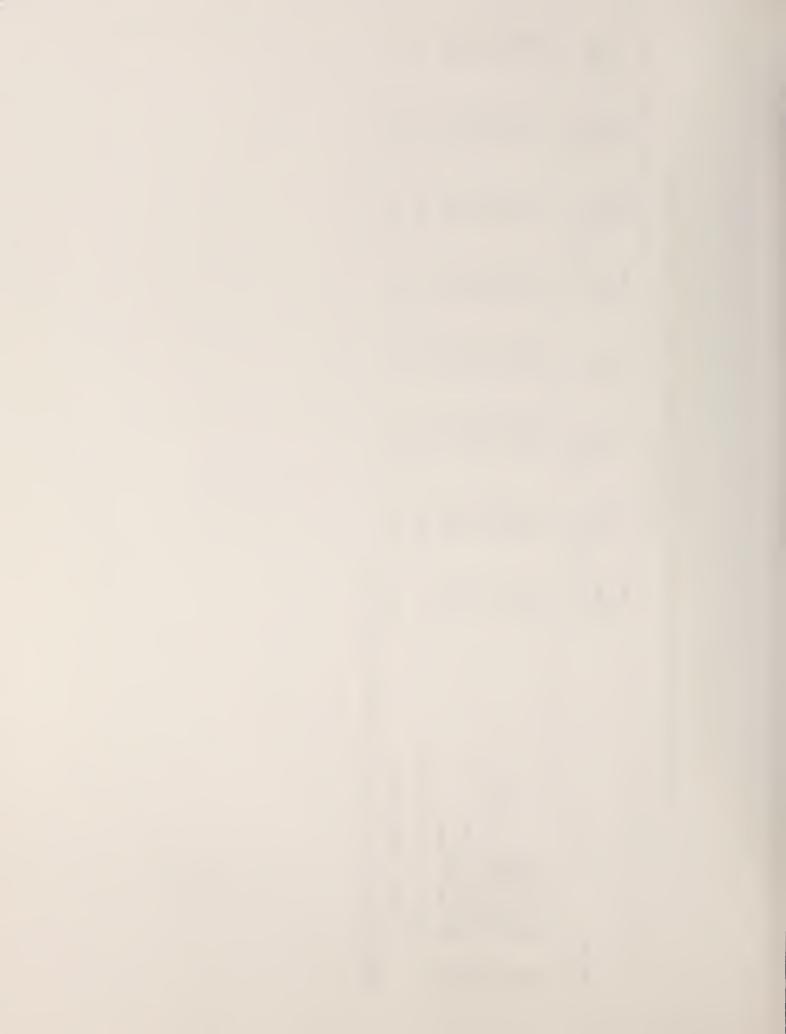


Table 8 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 General Surgery

New TOS Description	1985 Total Total Allowed Allo Services Serv	1988 Total Allowed Services usands)	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total Allowed Charges (in mill	1988 Total Allowed Charges	% of 1988 Total Allowed Charges	Average Annual Growth
M1 OFFICE VISITS M2 HOSPITAL VISITS M6 CONSULTATIONS P1 MAJOR PROCEDURES OTHER P1C CARDIOVASCULAR P1M ORTHOPEDIC P2 AMBULATORY PROCEDURES OTHER P3 MINOR PROCEDURES P6 ENDOSCOPY PROCEDURES	4,853.5 3,457.2 766.9 620.7 297.4 49.5 767.0	5009.1 2892.1 933.4 685.2 366.7 48.8 884.7 806.5	31.86% 18.40% 5.94% 4.36% 0.31% 5.63% 3.24%	1.06% -5.78% 6.77% 7.23% -0.48% 4.87% 3.41%	95.6 91.7 46.3 528.5 277.4 38.4 185.8 27.5	118.7 93.2 64.7 635.1 351.9 42.2 240.3 32.2	6.54% 5.13% 3.56% 34.97% 19.38% 2.32% 13.23%	7.48% 0.54% 11.80% 6.32% 3.20% 8.95% 5.40%
OTHER GENERAL SURGERY SERVICES ALL GENERAL SURGERY SERVICES	3,460.1	3,585.4	22.81%	1.19%	112.3	119.8	6.60%	2.18%



markets, these procedures are done by general surgeons, and elsewhere by vascular surgeons. These procedures tended to decline in importance.

Ophthalmology

Ophthalmologists accounted for \$3.2 billion of Medicare allowed charges in 1988, or about 15 percent of the total physician allowed charges (Table 9). Almost 75 percent of the services provided by ophthalmologists were evaluation and management services-either office visits or specialist evaluation and management services. However, 71.5 percent of ophthalmologists' allowed charges came from ambulatory procedures/eye; only 16.3 percent of allowed charges came from specialist evaluation and management services. Not only are ophthalmologists the second most important specialty in Medicare, in terms of absolute dollars, they are also one of the fastest growing, with allowed charges increasing by 14.8 percent. This growth is in spite of the various reductions in fees for overpriced procedures in 1988, limits on interocular lens charges that can be passed through (effective July 1988), and limits on Amode ophthalmic service fees (effective April 1988). The number of allowed charges for specialist evaluation and management services increased at 56.0 and 22.3 percent per year, respectively. These consist of ophthalmological exams and diagnostic evaluations; the growth in these services is considerably faster than the growth in ophthalmological surgery. Allowed charges for eye surgery increased at 16.8 percent per year.

The most dominant procedure in all of Medicare is the extracapsular cataract removal with insertion of lens. This accounted for 46.5 percent of all allowed charges for ophthalmologists and grew at annual rates of 29.2 percent. In part, this replaced alternative cataract removal procedures, but the overall growth nonetheless was still extraordinary. Other ophthalmological surgery procedures, e.g., trabeculoplasty and discission of secondary

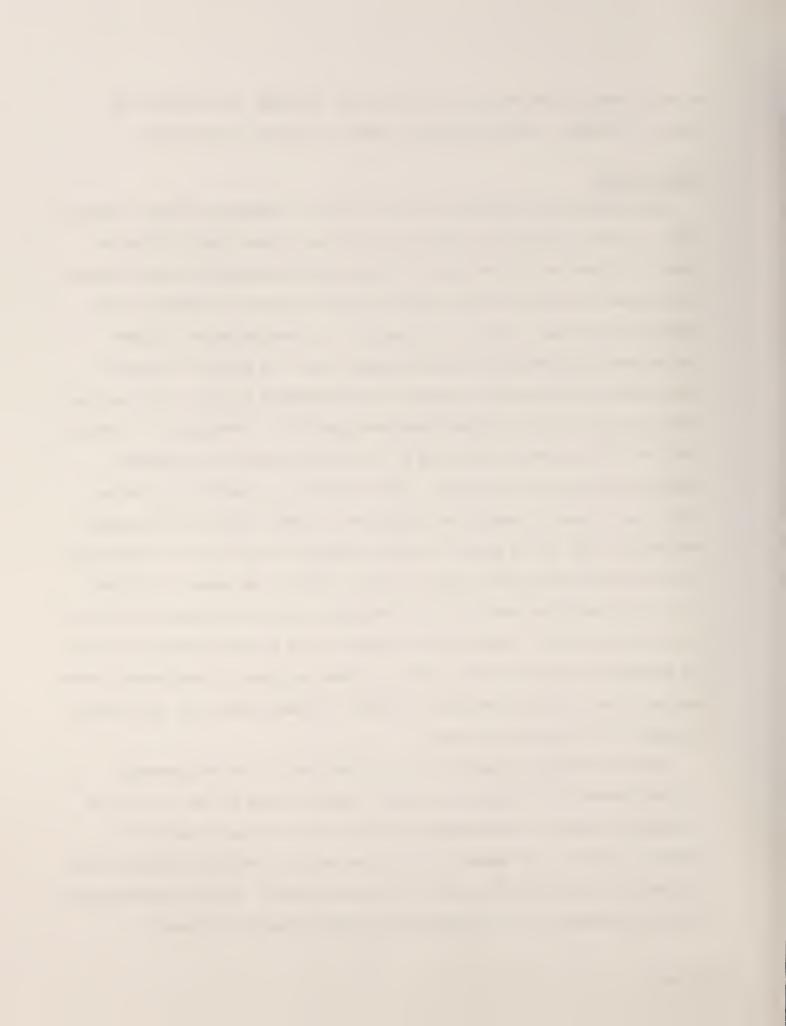


Table 9 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Ophthalmalogy

New TOS	os Description	1985 1 Total To Allowed Allo Services Servi	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 1988 Fotal Total Allowed Allowed Charges Charges (in millions)	1988 Total Allowed Charges .lions)	% of 1988 Total Allowed Charges	Average Annual Growth
M1 M5 P2E I3	OFFICE VISITS SPECIALIST EVALUATION & MANAGEMENT SERVICES AMBULATORY PROCEDURES - EYE SONOGRAPHY	4,060.8 8,228.5 1,137.9	4,571.1 12,956.9 2,030.1 1,086.2	19.75% 55.98% 8.77% 4.69%	4.02% 16.34% 21.29% 14.78%	90.6 284.3 1,451.7 90.0	115.7 527.5 2,314.1 111.8	3.58% 16.30% 71.52% 3.45%	8.51% 22.88% 16.81% 7.50%
	OTHER OPHTHALMOLOGY SERVICES	2,601.3	2,501.9	10.81%	-1.29%	222.1	166.4	5.14%	-9.17%
	ALL OPHTHALMOLOGY SERVICES	16,746.6	23,146.1	100.00%	11.39%	2,138.6	3,235.4	100.00%	14.80%
SOURCE	SOURCE: Tabulations from the 1985 and 1988 BMAD procedure files	edure files.							

Note: The decline in the residual category was primarily due to a decline in use of local codes.



membraneous cataracts, both also increased very rapidly during this period. The latter (CPT code 66831) reflects a new technique using laser surgery to remove the secondary membraneous cataract; by 1988 it had almost completely replaced the incisional procedure (CPT code 66830).

Orthopedic Surgery

Orthopedic surgeons accounted for \$1.3 billion in Medicare allowed charges, the third-ranking surgical specialty in absolute Medicare dollars (Table 10). Orthopedic surgeons receive 55.5 percent of Medicare revenue from major orthopedic procedures. Another 8.5 percent of revenue is derived from ambulatory procedures. Office visits (8.9 percent) and standard imaging (8.4 percent) were also important. The fastest growing type of service was fiberoptic procedures (30.1 percent), reflecting the growth in arthroscopic knee procedures. The number of these procedures increased by 41.5 percent and allowed charges by 47.7 percent. Major orthopedic procedures increased by 9.2 percent and ambulatory procedures by 9.7 percent. The most important individual procedure was knee replacements, where allowed charges grew at 18.5 percent, substantially faster than outlays on hip replacements during this period. There are a number of hip procedure codes, several of which changed during the 1985–1988 period. In the aggregate, allowed charges for all hip replacement procedures increased by 9.3 percent between 1985 and 1988.

Thoracic Surgery

Thoracic surgeons had \$842.1 million in Medicare allowed charges in 1988 (Table 11). Thoracic surgeons derive most of their Medicare income from cardiovascular procedures. Thoracic surgeons perform coronary artery bypass grafts, thromboendartorectomies, aneurism repairs, and pacemaker insertions. During this period, the number of major cardiovascular procedures increased by

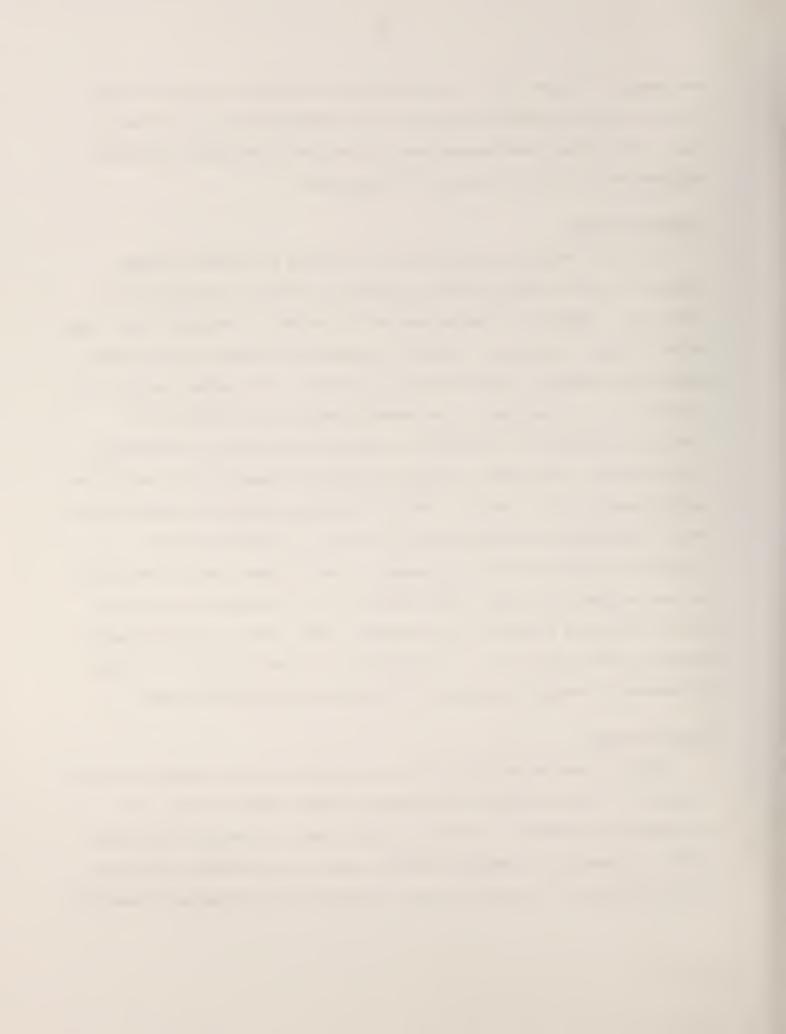


Table 10 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Orthopedic Surgery

		1985	1988	% of		1985	1988	\$ of	
		Total	Total	1988	Average	Total	Total	1988	Average
		Allowed	Allowed	Total	Annual	Allowed	Allowed	Total	Annual
New TOS	TOS Description	Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
		(in thousands	usands)	Services		(in millions)	llions)	Charges	
2	OFFICE VISITS	3,279.9	4,066.9	33.26%	7.43%	T. 6T	116.7	8.91%	13.55%
M2	HOSPITAL VISITS	1,165.3	891.0	7.29%	-8.56%	31.5	29.6	2.26%	-2.01%
W W	CONSULTATIONS	336.1	377.9	3.09%	3.98%	20.4	26.6	2.03%	9.26%
P1	MAJOR PROCEDURES - OTHER	16.0	23.8	0.19%	14.11%	19.6	32.0	2.44%	17.75%
PIM	ORTHOPEDIC	398.7	470.4	3.85%	5.67%	558.5	127.1	55.51%	9.19%
P 2	AMBULATORY PROCEDURES - OTHER	280.8	348.5	2.85%	7.46%	84.5	111.6	8.52%	9.73%
. Ed	MINOR PROCEDURES	1,591.8	2,239.7	18.32%	12.06%	54.8	77.5	5.92%	12.28%
9 d	ENDOSCOPY PROCEDURES	32.1	57.0	0.478	21.04%	23.1	50.8	3.88%	30.10%
: ::	STANDARD IMAGING	2,420.8	2,996.1	24.50%	7.37%	79.1	110.5	8.43%	11.77%
	OTHER ORTHOPEDIC SURGERY SERVICES	620.7	757.3	6.19%	6.85%	28.5	27.5	2.10%	-1.21%
	ALL ORTHOPEDIC SURGERY SERVICES	10,142.3	12,228.6	100.00%	6.43%	9.9.5	1,309.8	100.00%	10.17%
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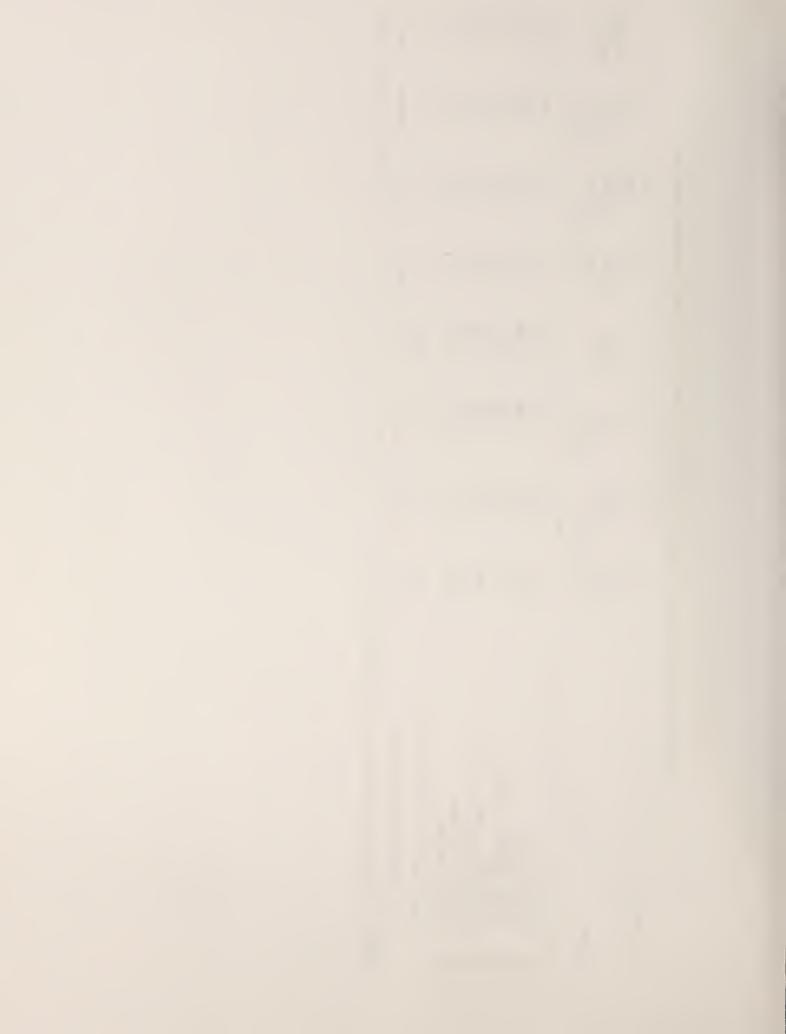
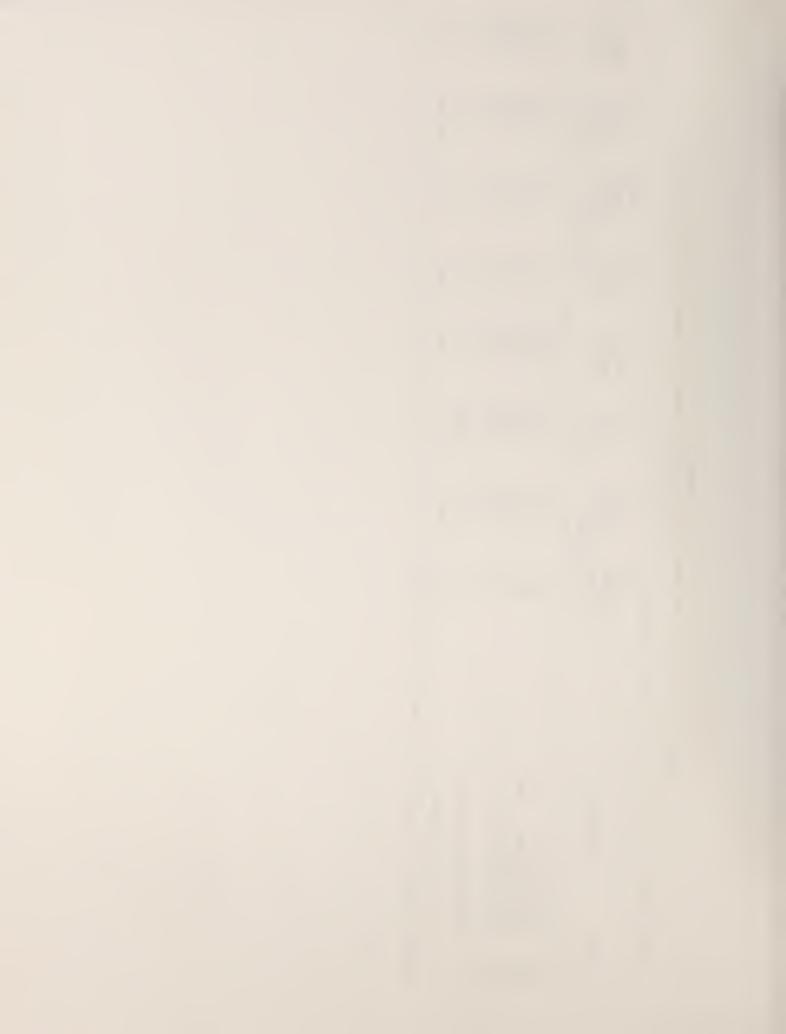


Table 11 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Thoracic Surgery

	1985	1988	% of		1985	1988	% of	
	Total	Total	1988	Average	Total	Total	1988	Average
	Allowed	Allowed	Total	Annual	Allowed	Allowed	Total	Annual
New TOS Description	Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
	(in thousands)	usands)	Services		(in millions)	lions)	Charges	
M2 HOSPITAL VISITS	. 379.1	382.2	17.46%	0.27%	11.9	14.4	1.71\$	6.56%
M6 CONSULTATIONS	192.5	236.0	10.78%	7.03%	14.2	19.7	2.34%	11.54%
P1 MAJOR PROCEDURES - OTHER	83.7	93.9	4.29%	3.94%	61.0	74.4	8.84%	6.84%
	217.2	284.5	13.00%	9.42%	427.9	639.7	75.97%	14.35%
P6 ENDOSCOPY PROCEDURES	52.1	50.0	2.28%	-1.41%	13.7	14.6	1.74%	2.24%
T2 OTHER TESTS	7.82	314.0	14.35%	9.42%	10,8	18.3	2.18%	19.23%
OTHER THORACIC SERVICES	686.7	828.1	37.83%	6.44%	49.0	6.09	7.23%	7.55%
ALL THORACIC SERVICES	1,850.9	2,188.7	100.00%	5.75%	588.5	842.1	100.00%	12.69%
SOURCE: Tabulations from the 1985 and 1988 BMAD procedure files	and 1988 BMAD procedure files.							



9.4 percent, and allowed charges for major cardiovascular procedures increased by 14.4 percent. There are several coronary artery bypass graft (CABG) codes, reflecting the number of arteries affected. The most common CABG procedures, grafts of between two and five arteries, increased by 13.8 to 17.3 percent. Allowed charges for these four procedures increased by 16.8 to 19.6 percent per year. In contrast, the number of pacemaker insertions was relatively stable over the period.

Urology

Urologists accounted for \$900.5 million in Medicare physician allowed charges in 1988 (Table 12). Allowed charges for urology procedures increased by 9.6 percent during this period. Urologists derive 41 percent of their Medicare revenue from major procedures/other, and 21.1 percent from endoscopy procedures, i.e., cystourethroscopy. Major procedures/other increased by only 4.8 percent, reflecting the very slow rate of growth in transurethral resection of the prostate (TURP) procedures. The number of TURPs increased by only 1.6 percent and allowed charges by only 3.7 percent. Thus, the dominant procedure for this specialty increased at about the same rate of growth for new Medicare beneficiaries. Cystourethroscopy procedures, however, which are more discretionary in nature, increased at significantly faster rates. The number of procedures increased by 7.8 percent and allowed charges by 13.5 percent. Urologists also had increases in allowed charges from office visits of about 14.2 percent and in ambulatory procedures/other at about 15.7 percent. latter reflects, in part, the introduction and significant growth in extracorporeal shock wave lithotripsy. The number of lithotripsy procedures increased from approximately 1200 to almost 18,000, and allowed charges increased from \$1.1 million to \$16.8 million.

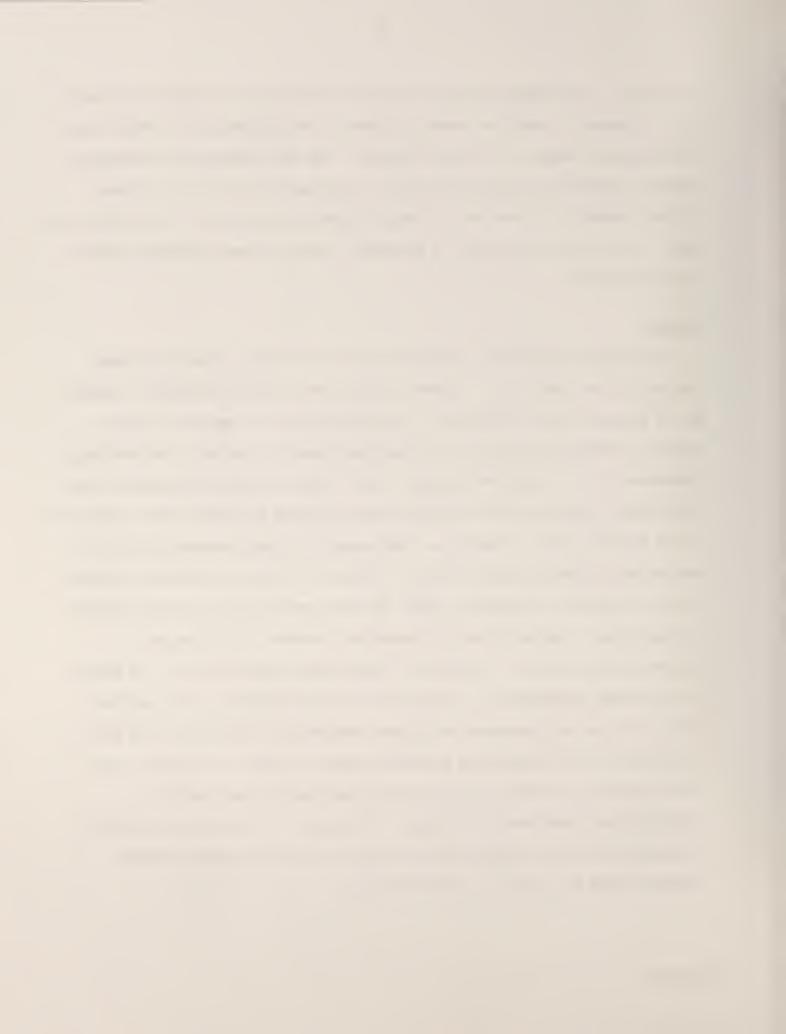
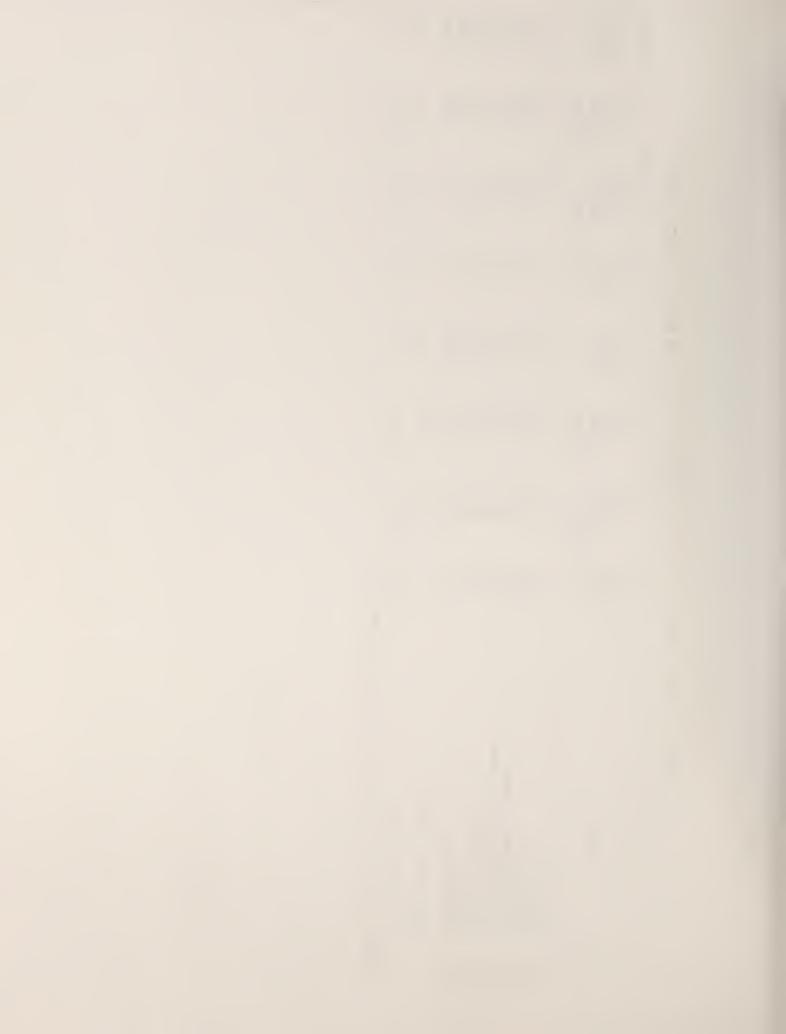


Table 12 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Urology

New TOS	TOS Description	1985 Total Allowed Services (in tho	1985 1988 Fotal Total Lowed Allowed vices Services (in thousands)	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total Allowed Charges (in mill	1988 Total Allowed Charges [lions]	% of 1988 Total Allowed Charges	Average Annual Growth
M1 M2 M6 P2 P3 P3	OFFICE VISITS HOSPITAL VISITS CONSULTATIONS MAJOR PROCEDURES - OTHER AMBULATORY PROCEDURES - OTHER MINOR PROCEDURES ENDOSCOPY PROCEDURES SONOGRAPHY LABORATORY TESTS	2,840.0 949.7 449.1 321.8 558.8 427.9 792.6 8.9	3,621.7 874.3 515.5 316.9 591.1 718.0 992.6 125.8	26.45% 6.39% 3.76% 4.32% 5.24% 7.25% 35.36%	8.44% -2.72% 4.70% -0.51% 1.89% 1.89% 7.79% 1.41.57%	60.4 27.2 26.7 320.6 46.0 13.8 130.0 0.9	89.9 29.2 36.1 368.8 71.2 27.8 190.0 17.1	9.98% 3.25% 4.01% 7.91% 3.09% 1.89%	14.17% 2.47% 10.48% 4.78% 15.73% 26.30% 13.47% 161.89%
	OTHER UROLOGY SERVICES ALL UROLOGY SERVICES	1,037.8	1,094.0	7.99%	1.778	35.3	39.8	4.42%	4.06%



Dermatology

Dermatologists had allowed charges of \$443.0 million in 1988 (Table 13). Allowed charges for dermatologists increased by 14.1 percent. Dermatologists derived 31.8 percent of their Medicare revenue from ambulatory procedures/other and 37.5 percent from minor procedures. Allowed charges for ambulatory procedures increased by 12.8 percent and minor procedures grew by 18.4 percent. Finally, office visits, which accounted for 18.2 percent of allowed charges, increased by 14.0 percent. The high growth rates for dermatology may reflect the fact that as the population ages more individuals are developing various skin cancers and lesions from aging, as well as increasing awareness of the possibility of skin cancers.

Other Surgical Specialties

Other surgical specialties include neurosurgeons, otolaryngologists, and obstetrician/gynecologists (Table 14). As a group, other surgical specialties accounted for \$910.8 million in 1988. The most important services for this group were office visits, major procedures/other, and ambulatory procedures/other. These accounted for 16.4, 31.6, and 17.1 percent of charges provided by this group in 1988. In comparison with other surgical specialties, this residual group did not have a particularly rapid rate of growth in allowed charges. The growth rates for major procedures/other and ambulatory procedures/other, however, were 11.3 and 12.1 percent, slightly faster than the growth rate for these types of services on average. The fastest growing services for other surgical specialties were minor procedures, which increased by 15.5 percent and endoscopies which increased by 15.9 percent.

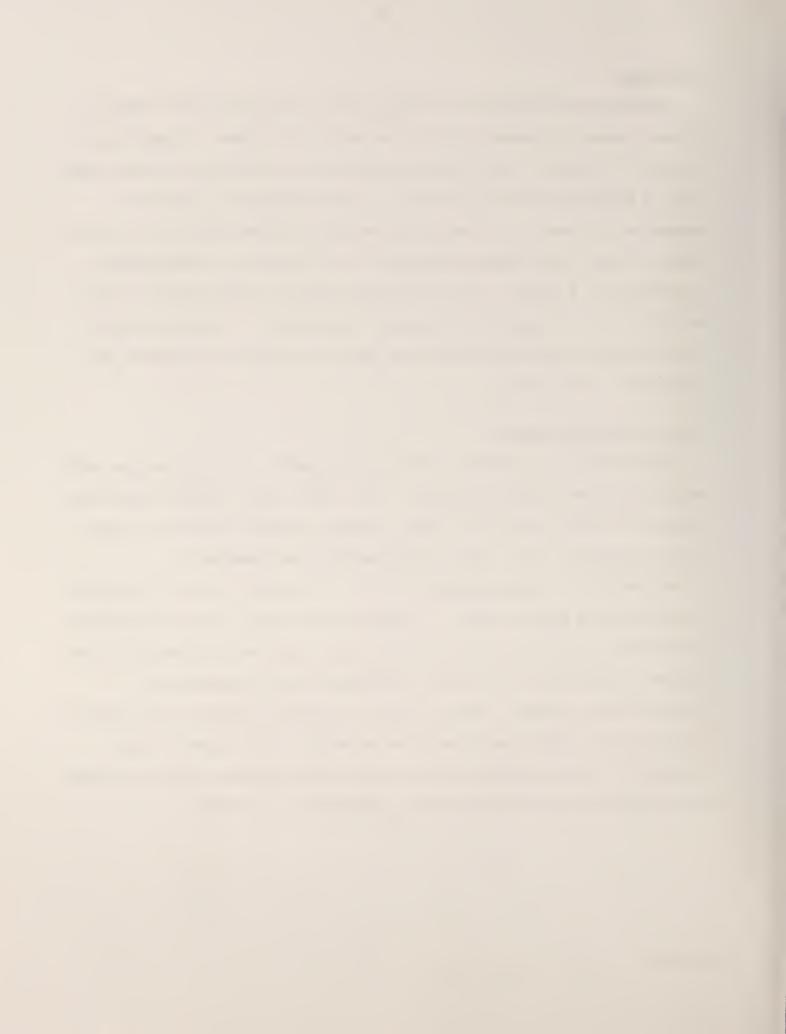


Table 13 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Dermatology

New TOS	OS Description	1985 Total Allowed Services (in tho	1985 1988 Total Total Lowed Allowed vices Services (in thousands)	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total Allowed Charges (in milli	1988 Total Allowed Charges Lions)	% of 1988 Total Allowed Charges	Average Annual Growth
M1 M5 M6 P2 P3	OFFICE VISITS SPECIALIST EVALUATION & MANAGEMENT SERVICES CONSULTATIONS AMBULATORY PROCEDURES - OTHER MINOR PROCEDURES	2,354.6 594.6 125.0 1,013.8 4,080.1	2,984.2 774.4 137.0 1,255.2 6,739.1	22.99% 5.97% 1.05% 9.67%	8.22% 9.21% 3.10% 7.38%	54.5 18.3 6.5 98.3	80.7 26.7 8.4 141.1 166.0	18.22% 6.04% 1.89% 31.84%	13.98% 13.58% 8.57% 12.80%
	OTHER DERMATOLOGY SERVICES ALL DERMATOLOGY SERVICES	1,087.7	1,092.5	8.42%	0.15%	20.4	20.1	4.54%	14.148

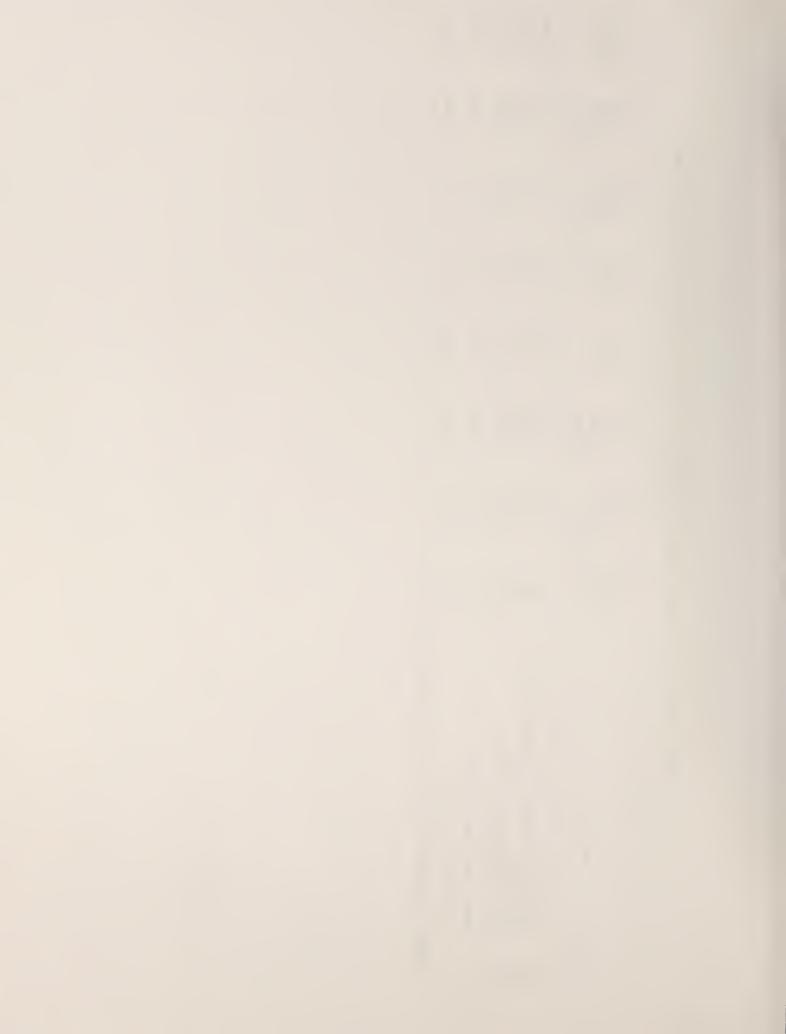


Table 14 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Other Surgical Specialty

		1985	1988	s of		1985	1988	% of	
		Total	Total	1988	Average	Total	Total	1988	Average
		Allowed	Allowed	Total	Annual	Allowed	Allowed	Total	Annual
New TOS	FOS Description	Services	Services	Allowed	Growth	Charges Char	Charges	Allowed	Growth
		(in tho	(in thousands)	Services		(in mi)	lions)	Charges	
M1	OFFICE VISITS	4,267.1	5,087.5	40.50%	6.04%	106.2	149.2	16.38%	12.01%
M2	HOSPITAL VISITS	925.0	813.8	6.48%	-4.18%	7.97	28.5	3.13%	2.21%
9W	CONSULTATIONS	474.8	540.7	4.30%	4.438	29.6	39.1	4.30%	9.79%
P1	MAJOR PROCEDURES - OTHER	196.2	250.7	2.00%	8.50%	208.3	287.5	31.57%	11.33%
P2	AMBULATORY PROCEDURES - OTHER	393.7	513.5	4.09%	9.27%	111.0	156.1	17.14%	12.05%
P2E	AMBULATORY PROCEDURES - EYE	13.086	17.9	0.14%	11.04%	14.4	19.1	2.10%	9.73%
P3	MINOR PROCEDURES	558.6	849.8	6.778	15.01%	27.1	41.8	4.59%	15.53%
P6	ENDOSCOPY PROCEDURES	302.1	414.5	3.30%	11.12%	43.3	67.5	7.41%	15.93%
T2	OTHER TESTS	1,019.8	1,326.2	10.56%	9.15%	24.5	34.4	3.78%	12.03%
							r		6
	OTHER SURGICAL SPECIALTY SERVICES-other	2,279.6	2,745.6	21.86%	6.40%	82.4	9.78	9.61%	2.03%
	ALL SURGICAL SPECIALTY SERVICES-other	10,429.9	12,560.2	100.00%	6.39%	673.6	910.8	100.00%	10.58%
	THE TOOK AND	6.1.5							

Note: Other surgical specialties include otolaryngologists, neurosurgeons, obstetrician/gynecologists, plastic surgeons, hand surgeons, proctologists, and all associated osteopathic surgeons.

Multi-Specialty Clinics

Multi-specialty clinics accounted for \$1.6 billion in 1988 (Table 15). As one might expect, multi-specialty clinics provide services across a broad array of types of services. Office and hospital visits were the most important, accounting for 12.8 and 11.5 percent of allowed charges in 1988. Next in importance were standard imaging, emergency room services, and other tests. As a group, multi-specialty clinics had an overall growth rate of 14.3 percent per year. Several types of services increased rather rapidly for multi-specialty clinics. Allowed charges for imaging increased by 51.8 percent per year, sonography by 31.1 percent, and imaging/procedures by 22.2 percent. Standard imaging, emergency room services, and specialist evaluation and management services also increased very rapidly.

Radiology

Radiologists had \$2.4 billion in Medicare allowed charges in 1988, thus ranking third behind internal medicine and ophthalmology (Table 16). This group includes radiation therapists as well as all other radiologists. As a result, oncology services as well as various imaging procedures are important for this group even though they are performed by significantly different types of physician practices. Oncology services account for 14.8 percent of allowed charges of radiologists. Oncology services increased by only 2.8 percent but allowed charges grew by 16.4 during the period; some of the differential, but by no means all, reflects upcoding.

Standard imaging accounted for 73.7 percent of all services performed by radiologists and 42.3 percent of allowed charges. Standard imaging, however, increased by only 9.4 percent. The exception to the low growth rates for standard imaging was mammographies, where services increased by 42.6 percent, and allowed charges increased by 49.1 percent. This is clearly due to



Table 15 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Multi-Specialty Clinics

N e S	New TOS Description	1985 1 Total To Allowed Allo Services Servi	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total Allowed Charges (in mi	1985 1988 otal Total owed Allowed rges Charges (in millions)	% of 1988 Total Allowed Charges	Average Annual Growth
£	OFFICE VISITS	7,091.7	7.786,7	18.68%	4.05%	\$151.0	\$207.0	12.83%	11.08%
M2	HOSPITAL VISITS	5,082.2	5,116.8	11.97%	0.23%	155.1	185.3	11.48%	6.11%
M3	EMERGENCY ROOM SERVICES	2,111.4	2,906.2	6.80%	11.24%	64.7	117.6	7.29%	22.06%
M4	NON-HOSPITAL, NON-SPECIALIST VISITS	1,108.1	1,344.2	3.14%	6.65%	21.6	33.8	2.10%	16.10%
M5	SPECIALIST EVALUATION & MANAGEMENT SERVICES	1,035.8	1,279.8	2.99%	7.31%	27.5	46.1	2.86%	18.76%
9W	CONSULTATIONS	591.7	683.5	1.60%	4.93%	36.0	47.8	2.96%	9.878
ΡÌ	MAJOR PROCEDURES - OTHER	145.0	149.2	0.35%	0.95%	70.0	84.5	5.24%	6.45%
P1C	CARDIOVASCULAR	169.1	213.9	0.50%	8.15%	61.5	87.9	5.45%	12.61%
PIM	ORTHOPEDIC	24.0	21.7	0.05%	+3.38%	25.3	29.8	1.85%	5.64%
P2	AMBULATORY PROCEDURES - OTHER	186.1	207.3	0.48%	3.66%	30.2	40.7	2.52%	10.52%
P2E	AMBULATORY PROCEDURES - EYE	37.4	40.6	0.10%	2.78%	36.1	45.9	2.85%	8.37%
P3	MINOR PROCEDURES	921.7	1,316.5	3.08%	12.62%	26.5	42.7	2.64%	17.18%
P5	ONCOLOGY SERVICES	447.9	5.075	1.33%	8.40%	17.0	31.2	1.93%	22.56%
P6	ENDOSCOPY PROCEDURES	230.7	283.5	899.0	7.11%	41.9	65.3	4.05%	15.91%
11	STANDARD IMAGING	2,807.4	4,428.9	10.36%	16.41%	72.6	139.3	8.64%	24.26%
12	ADVANCED IMAGING	168.7	379.7	0.89%	31.05%	19.3	67.5	4.19%	51.75%
13	SONOGRAPHY	314.1	591.8	1.38%	23.51%	23.5	53.0	3.29%	31.10%
14	I MAGING/PROCEDURES	84.6	112.2	0.26%	9.878	18.4	33.6	2.08%	22.20%
T1	LABORATORY TESTS	4,577.6	6,728.9	15.74%	13.70%	35.2	50.7	3.14%	12.90%
T2	OTHER TESTS	3,928.3	4,980.1	11.65%	8.23%	71.17	115.4	7.16%	17.18%
	OTHER MULTI-SPECIALTY GROUP PRACTICE	3,160.8	3,417.9	7.99%	2.64%	74.2	88.1	5.46%	5.89%
	ALL MULTI-SPECIALTY GROUP PRACTICE	34,224.5	42,760.9	100.00%	7.71%	1,079.4	1,613.1	100.00%	14.33%

SOURCE: Tabulations from the 1985 and 1988 BMAD procedure files.

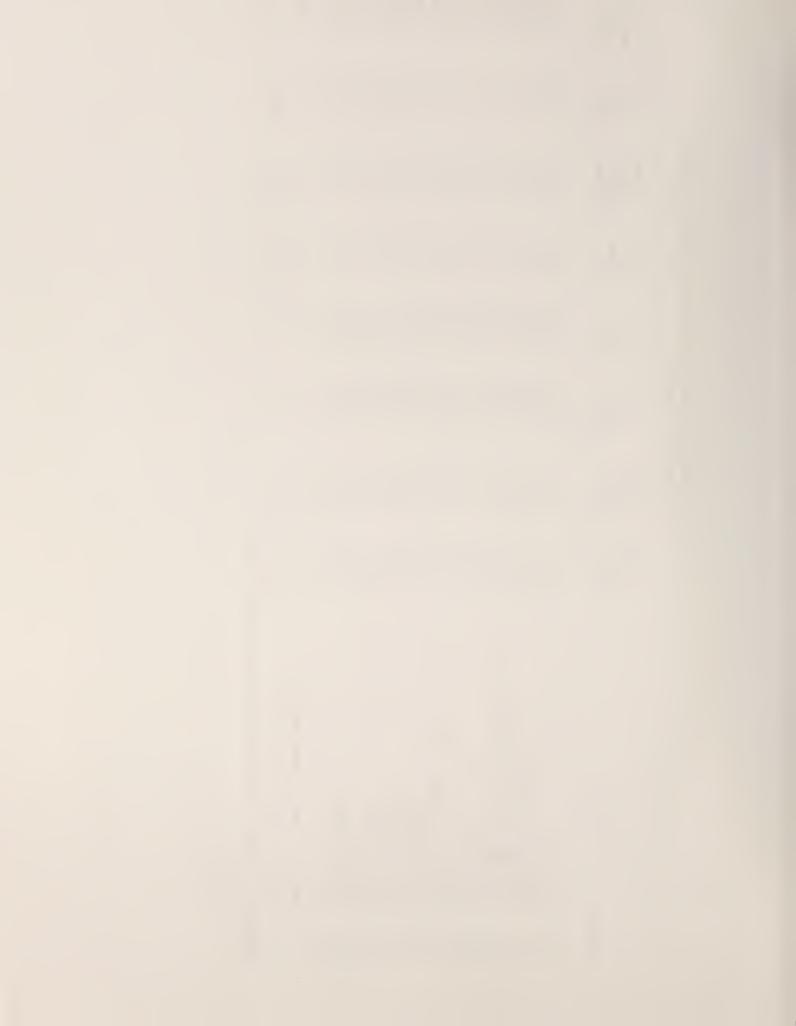


Table 16 Growth in Services and Allowed Charges for Individual Procedures, by Types of Services, 1985-1988 Radiology

New TOS	OS Description	1985 1 Total To Allowed Allo Services Servi	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 19 Total Tot Allowed Allow Charges Charg (in millions)	1988 Total Allowed Charges lions)	% of 1988 Total Allowed Charges	Average Annual Growth
P5 11 12 13	ONCOLOGY SERVICES STANDARD IMAGING ADVANCED IMAGING SONOGRAPHY IMAGING/PROCEDURES	4,819.2 35,808.9 3,150.2 1,627.4	5,228.2 40,712.8 4,318.5 2,288.6	9.47% 73.74% 7.82% 4.15%	2.75% 4.37% 11.09% 12.04% -0.85%	222.5 762.6 276.2 90.9 123.9	351.1 997.4 618.1 154.8	14.84 42.16% 26.113% 6.55% 6.24%	16.43% 9.36% 30.80% 19.43% 6.02%
	OTHER RADIOLOGY SERVICES ALL RADIOLOGY SERVICES	4,882.4	1,877.8	3.40%	-27.28%	112.3	96.4	4.07%	-4.96%
9									

SOURCE: Tabulations from the 1985 and 1988 BMAD procedure files.

Note: The decline in the residual other category reflects a decline in the use of unclassifiable codes.



increased beneficiary awareness since the Medicare mammography screening benefit was not effective until January 1, 1991. (Thus the increase came in spite of lack of Medicare payment specifically for screening purposes.) The bottom line, however, was that the high growth rate for radiologists was not attributable to routine x-rays. Most of the growth for radiologists was due to technological innovation in advanced imaging and sonography. Advanced imaging procedures increased by 11.1 percent per year and allowed charges by 30.8 percent, reflecting the introduction of MRIs, a significantly more expensive technology than CT scans. A wide range of CT scan procedures increased rapidly. Allowed charges increased by 15 to 25 percent per year. Magnetic resonance imaging of the orbit face and neck increased from about 8,000 in 1985 to almost 177,000 in 1988. The result was that allowed charges for this one procedure alone increased from about \$200,000 to \$57.4 million in 1988. Finally, allowed charges for ultrasound procedures increased by 19.4 percent per year.

Pathology/Laboratory

Pathology and laboratory services accounted for \$1.3 billion in Medicare allowed charges in 1988 (Table 17). Allowed charges for these services increased by 17.7 percent during this period. Pathology and laboratory services are divided predominantly into specialist evaluation and management services, i.e., surgical pathology and laboratory tests. The specialist evaluation and management services accounted for 24.1 percent of allowed charges. Laboratory tests accounted for about 68 percent of all allowed charges. Both categories increased dramatically—specialist evaluation and management services by 20.4 percent and laboratory tests by 18.8 percent. The specialist evaluation and management growth reflects increases in all of the major surgical pathology procedure codes. Growth in laboratory tests was not

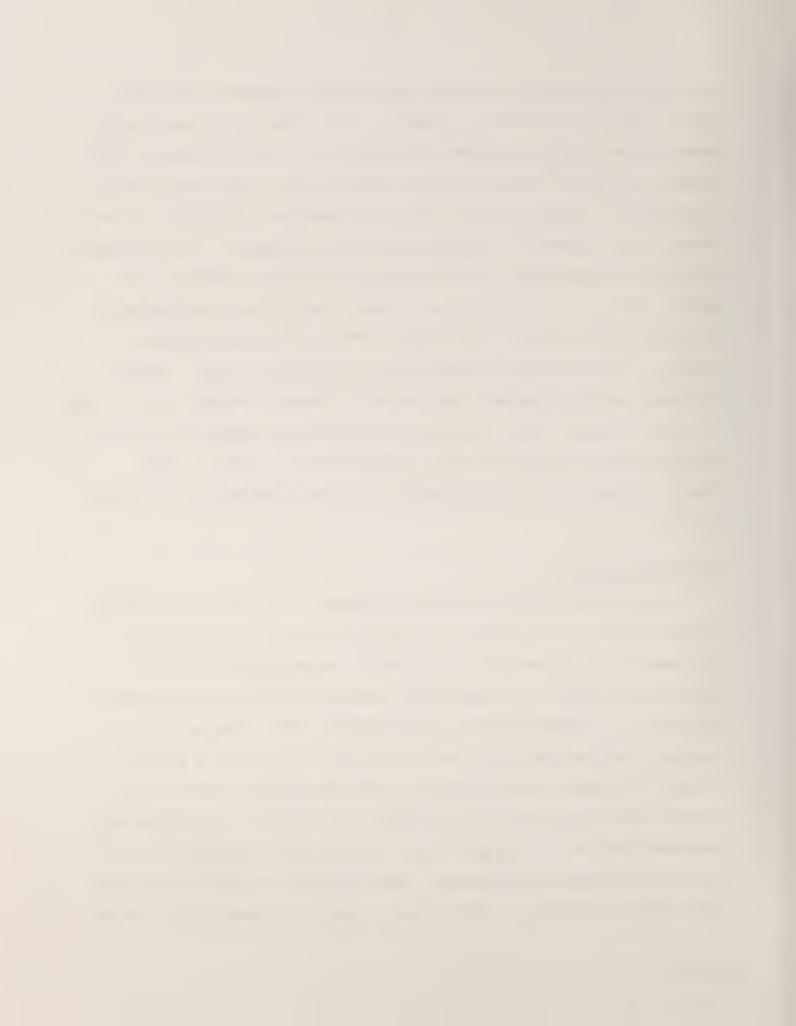


Table A.3 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Internal Medicine

HCPCS	Description	Total TAllowed All Services Serv (in millions)	Total Allowed Services lions)	1988 Total Allowed Services	Average Annual Growth	Total T Allowed All Charges Cha	Total Allowed Charges	1988 Total Allowed Charges	Average Annual Growth
90020	Office medical service, new patient, comprehensive	0.7	0.8	0.53%	3.68%	\$40.9	\$55.6	1.30%	10.76%
90040	service Office medical service, established patient,	3.8	2.6	1.77%	-11.92%	65.2	49.3	1.15%	-8.92%
90050	brief service Office medical service, established patient,	11.8	13.0	8.778	3.22%	241.1	291.6	6.82%	6.54%
09006	Innited Service . Office medical service, established patient,	11.0	15.2	10.25%	11.35%	266.7	421.3	9.86%	16.47%
90070	incormediate service Office medical service, established patient,	2.0	3.0	2.03%	14.05%	63.4	110.3	2.58%	20.27%
90080	extended service Office medical service, established patient,	1.4	1.7	1.13%	800.9	69.1	9.96	2.26%	11.82%
90215	comprehensive service Initial hospital care, intermediate history and examination, initiation of diagnostic and treatment	0.7	9.0	0.40%	-6.38%	42.3	39.0	0.91%	-2.64%
90220	programs, and preparation of hospital records Initial hospital care, comprehensive history and examination, initiation of diagnostic and treat-	2.3	2.3	1.53%	-0.13%	157.9	187.3	4.38%	5.87%
90240	ment programs, and preparation of hospital records Subsequent hospital care, each day, brief	4.0	2.4	1.61%	-16.04%	80.5	51.2	1.20%	-14.00%
90250	service Subsequent hospital care, each day, limited	11.1	9.7	6.54%	-4.41%	260.6	254.8	5.96%	-0.75%
90260	service Subsequent hospital care, each day, intermediate	11.6	13.4	9.078	4.96%	331.3	409.4	9.58%	7.31%
90270	Subsequent hospital care, each day, extended	2.4	2.9	1.97%	8.6978	82.7	115.3	2.70%	11.70%
90620	service Initial consultation, comprehensive Radiological examination, chest, two views, frontal	1.1	1.4	0.93%	6.47%	98.1	131.9 49.8	3.09%	10.36% 7.59%
93000	and lateral Electrocardiogram, routine ECG with at least 12	4.2	4.4	2.95%	1.08%	127.5	152.6	3.57%	6.19%
93010	<pre>leads, with interpretation and report Electrocardiogram, routine ECG with at least 12 leads, interpretation and report only</pre>	4.2	5.0	3.39%	5.98%	45.1	65.4	1.53%	13.18%
	Other Internal Medicine Procedures	129.9	74.5	50.29%	-16.92%	3,332.3	2,260.4	52.90%	-12.13%
	All Internal Medicine Procedures	129.9	148.1	100.00%	4.47%	3,332.6	4,272.8	100.00%	8.64%

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files.
Note: The Table includes all procedures which accounted for at least 1.5% of allowed charges for Internal Medicine in any year between 1985 and 1988.

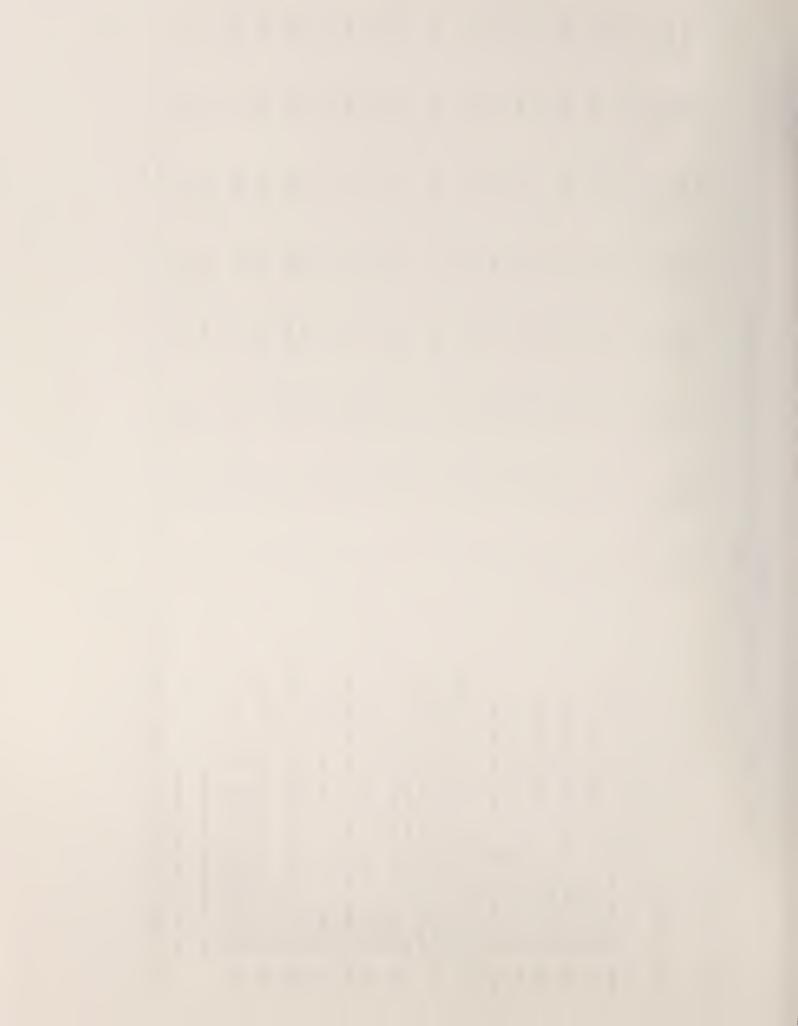


Table A.4 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Cardiology

HCPCS	Description	1985 Total Allowed Services	1988 Total Allowed Services	% of 1988 Total Allowed	Average Annual Growth	1985 Total Allowed Charges	1988 Total Allowed Charges	% of 1988 Total Allowed	Average Annual Growth
	•	(in thousands)	Isands)	Services		(in millions)	lions)	Charges	
90050	Office medical service, established patient,	1,243.7	1,580.9	4.61%	8.33%	\$27.3	\$38.5	2.08%	12.06%
09006	inition service, established patient, intermediate service	1,651.1	2,575.6	7.51%	15.97%	45.1	79.8	4.32%	20.97%
90220	Intelmediate services Initial hospital care, comprehensive history and examination, initiation of diagnostic and treatment programs, and preparation of hospital	411.0	497.0	1.45%	6.54%	30.5	44.9	2.43%	13.70%
90250	Subsequent hospital care, each day, limited service	1,806.7	1,759.5	5.13%	-0.88%	46.4	50.0	2.71%	2.55%
90260	Subsequent hospital care, each day, intermediate service	2,131.0	2,935.1	8.56%	11.26%	65.4	98.9	5.35%	14.79%
90270	Subsequent hospital care, each day, extended service	673.5	1,003.6	2.93%	14.22%	25.7	44.7	2.42%	20.21%
99173	Critical care, subsequent follow-up visit, intermediate examination, evaluation and/or treatment, same or new illness	293.0	616.9	1.80%	28.18%	12.1	31.8	1.72%	38.07%
90620	Initial consultation, comprehensive Electrocardiogram, routine ECG with at least 12 leads with internetation and report	446.8	635.0	1.85%	12.44%	40.7	64.6	3.50%	16.65% 13.43%
93010	Electrocardiogram, routine ECG with at least 12 leads interpretation and renort only	4,113.1	6,604.5	19.27%	17.10%	47.0	86.0	4.65%	22.32%
93015	Cardiovascular stress test using maximal or submaximal treadmill or bicycle exercise; continuous electrocardiographic monitoring, with inferoretation and report	193.8	322.8	0.94%	18.54%	23.3	45.6	2.47%	25.07%
93262	continuous analog recording, 12-24 hours of continuous analog recording, with physician review, interpretation, and report, with or without full disclosure printout with superimposition scanning	0.0	41.5	0.12%		0.0	7.4	0.40%	
93274	Electrocardiographic monitoring utilizing a system such as magnetic tape, 12 through 24 hours, includes recording, scanning analysis, interpretation and renort	146.6	0.1	300.0	-92.26%	23.6	0.017	0.00%	-91.11%
00019		o. o	134.2	0.39%		0.0	27.8	1.51%	
93307	Echocardiography, real time with image documentation (2D), complete	7.571	238.7	0.70%	10.74%	17.5	23.7	1.28%	10.60%



Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Table A.4 (Continued) Cardiology

HCPCS	HCPCS Description	1985 Total T Allowed All Services Serv	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total T Allowed All Charges Cha	1988 Total Allowed Charges	% of 1988 Total Allowed Charges	Average Annual Growth
93309	Echocardiography, M-mode and real time with image	87.4	474.0	1.38%	75.68%	\$11.6	\$71.7	3.88%	83.56%
76629		26.3	192.3	0.56%	94.13%	3.2	30.8	1.67%	113.15%
93547		84.7	173.9	0.51%	27.11%	50.6	122.9	6.65%	24.45%
93549		56.7	94.9	0.28%	18.70%	44.5	85.8	4.64%	24.45%
93503	Ventricular anylogiaphy Right heart catheterization, placement of flow directed catheter (eq. swan-ganz), with or without balloon tip, when placed for monitoring purposes, collection	50.8	8.09	0.18%	6.15%	13,8	20.5	1.11%	14.12%
92982		15.4	52.2	0.15%	\$60.09	13.4	80.2	4.34%	81.49%
	Other Cardiology Procedures	8,968.5	12,333.7	35.98%	11.20%	444.3	721.2	39.04%	17.52%
	All Cardiology Procedures	24,271.3	34,277.8	100.00%	12.19%	1,034.3	1,847.3	100.00%	21.33%

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files.

Note (1): The Table includes all procedures which accounted for at least 1.5% of allowed charges for Cardiology in any year between 1985 and 1988.

Note (2): HCFA instructed providers and carreiers to use specific level II HCPCS codes (Q codes) for ambulatory cardiac monitoring procedures during this time period rather than specific CPT-4 codes. In addition, the 1987 edition of CPT-4 eliminated the 93270-93277 range of electrocardiograph monitoring

codes, replacing them with new codes in the range 93258-93262. This explains the sharp increases in 93262 and decreases in 93274.



Table A.5 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Gastroenterology

HCPCS	HCPCS Description	1985 Total Total Allowed Allowed Services Services (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total Allowed Charges (in mil	1985 1988 otal Total owed Allowed rges Charges (in millions)	% of 1988 Total Allowed Charges	Average Annual Growth
90050		311.3	402.7	6.01%	8.97%	\$7.1	\$9.9	1.63%	11.87%
03000	limited service octablished nationt	115 7	549 9	8 21%	17 88%	6	16.3	2 68%	22 00%
00006						, ,	•	•	
90220		80.2	96.1	1.43%	6.20%	5.9	8.2	1.35%	11.81%
	examination, initiation of diagnostic and treat-								
90250		569.8	622.7	9.30%	3.00%	15.0	17.3	2.84%	4.95%
	service								:
90260	Subsequent hospital care, each day, intermediate	556.9	834.5	12.46%	14.43%	16.0	26.1	4.28%	17.65%
	Service				13	,		•	
90270	Subsequent hospital care, each day, extended	105.8	151.1	7.26%	12.62%	y.5	6.3	1.03%	17.27
			1. 700	0	000		000		0
90620		0.881	306./	4.58%	15.70%	11.7	30.5	5.01%	19.91%
90630		29.4	59.4	0.89%	26.39%	3.7	7.5	1.24%	27.00%
43235		152.8	256.3	3.83%	18.82%	44.1	79.0	12.98%	21.46%
	esophagus, stomach and either the duodenum and/or								
43246		0.781	16.2	0.24%	174.93%	0.3	æ.æ	1.37%	195.24%
	stomach, and either the doudenum and/or jejunum as								
	appropriate for directed placement of percutaneous								
				°	000			0	010
43239	Upper gastrointestinal endoscopy including	93.3	102.7	2.438	20.378	31.0	57.5	9.41%	\$7.0.77
	jesupingus, scomach and ettilet the documental of								
	collection of specimen by brushing or washing								
43260	Endoscopic retrograde cholangiopancreatography	15.3	23.7	0.35%	15.72%	9.9	11.6	1.91%	20.61%
	(ERCP), with or without specimen collection								
45330	Sigmoidoscopy, flexible fiberoptic, diagnostic	73.6	155.8	2.33%	28.38%	6.7	15.8	2.60%	33.30%
45360		37.6	2.7	0.04%	-58.62%	8.5	9.0	\$60.0	-59.60%
	flexure, diagnostic procedure								
45378	-	82.7	170.6	2.55%	27.30%	32.5	75.1	12.34%	32.21%
	diagnostic procedure								
45380	Colonoscopy, fiberoptic, beyond	37.8	76.4	1.14%	26.43%	16.6	37.2	6.11%	30.96%
	for blopsy and/or collection of specimen by								
45385		48.6	107.4	1.60%	30.28%	29.5	72.8	11.96%	35.20%
	for removal of polypoid lesion(s)								



Table A.5 (Continued)
Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988
Gastroenterology

HCPCS Description	1985 19 Total Tot Allowed Allow Services Servic (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 1988 nual Total Total nual Allowed Allowed owth Charges Charges (in millions)	1988 Total Allowed Charges lions)	% of 1988 Total Allowed Charges	Average Annual Growth
Other Gastroenterology Procedures	2,025.0	2,702.8	40.35%	10.10%	83.7	128.9	21.17%	15.49%
All Gastroenterology Procedures	4,754.6	6,697.7	100.00%	12.10%	337.6	608.8	100.00%	21.71%
Source: Tabulations from the 1985 and 1988 BMAD Procedure Files.								

Source: Tabulations from the 1985 and 1988 BMAD Procedure rises.

Note (1): The Table includes all procedures which accounted for at least 1.5% of allowed charges for Gastroenterology in any year between 1988 and 1988.

Note (2): The 1988 edition of CPT-4 directed physicians to use code 45330 rather than 45360, which explains much of the sharp increase in the former and declines in the latter.



Table A.6 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Psychiatry

HCPCS	HCPCS Description	1985 Total Translation Translation Allowed Allowed Services Services (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total T Allowed All Charges Cha	1988 Total Allowed Charges	% of 1988 Total Allowed Charges	Average Annual Growth
90801	Psychiatric diagnostic interview examination including history, mental status, or disposition (may include communication with family or other sources, ordering and medical interpretation of laboratory or other medical diagnostic studies. In certain circumstances	115.4	169.5	1.98%	13.68%	9.9\$	\$12.6	3.59%	23.84%
90841	other informants will be seen in lieu of the patient) Individual medical psychotherapy by a physician, with continuing medical diagnostic evaluation, and drug management when indicated, including psychoanalysis, insight oriented, behavior modifying or supportive	649.1	799.4	9.33%	7.19%	17.1	28.5	8.14%	18.53%
90843	psychotherapy, time unspecified Individual medical psychotherapy by a physician, with continuing medical diagnostic evaluation, and drug management when indicated, including psychoanalysis, insight oriented, behavior modifying or supportive	1,451.4	1,786.2	20.84%	7.17%	42.1	53.7	15.32%	8.42%
90844	psychotherapy, approximately to to so minutes. Individual medical psychotherapy by a physician, with continuing medical diagnostic evaluation, and drug management when indicated, including psychoanalysis, insight oriented, behavior modifying or supportive	1,546.0	1,807.6	21.09%	5.35%	66.1	99.3	28.35%	14.51%
90853	psycnotnetapy, approximately 45 to 50 minutes Group medical psychotherapy (other than of a multiple-family group) by a physician, with continuing medical diamostic evaluation and druq manaqement when indicated	349.6	401.9	4.69%	4.75%	4.0	6.4	1.83%	16.67%
90862	Chemotherapy management, including prescription, use, and review of medication with no more than minimal medical psychotherapy	238.2	400.9	4.68%	18.95%	6.4	6.8	2.55%	11.74%
90870	Electron Francisco Therapy (includes necessary maniforing)	82.1	85.9	1.00%	1.54%	5.0	5.7	1.63%	4.49%
90220	Initial hospital care, comprehensive history and Examination, initiation of diagnostic and treatment programs, and preparation of hospital records	91.1	116.5	1.36%	8.54%	6.9	10.6	3.04%	15.64%
90240	Subsequent hospital care, each day, brief services Subsequent hospital care, each day, limited service	236.7	217.9	2.54%	-2.73%	5.5	5.9	3.44%	2.31% 6.01%

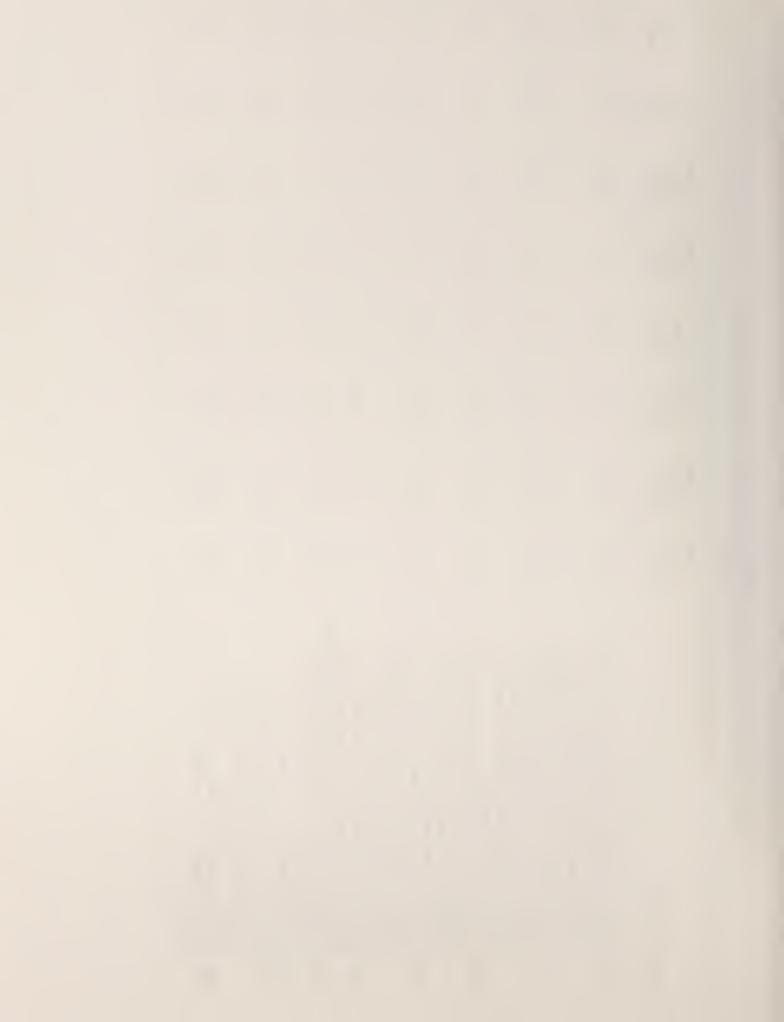


Table A.6 (Continued) Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Psychiatry

HCPCS	HCPCS Description	1985 Total T Allowed All Services Serv (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total T Allowed All Charges Cha	1988 Total Allowed Charges	% of 1988 Total Allowed Charges	Average Annual Growth
				-					
90260	90260 Subsequent hospital care, each day, intermediate service	382.6	505.5	5.90%	9.73%	\$12.8	\$20.1	5. /3%	16.05%
90270	90270 Subsequent hospital care, each day, extended service	142.6	216.9	2.53%	15.00%	6.7	11.7	3.33%	20.50%
90280	Subsequent hospital care, each day, comprehensive service	145.9	174.9	2.04%	6.22%	6.4	10.5	3.01%	18.25%
90620	Initial consultation, comprehensive	94.0	124.6	1.45%	9.84%	8.0	12.1	3.46%	14.94%
	Other Psychiatry Procedures	1,147.8	1,395.5	16.29%	6.73%	33.5	52.3	14.91%	15.95%
	All Psychiatry Procedures	7,037.4	8,569.3	100.00%	6.79%	237,3	350.4	100.00%	13.87%

Source: Tabulations from the 1985 and 1988 BWAD Procedure Files. Note: The Table includes all procedures which accounted for at least 1.5% of allowed charges for Psychiatry in any year between 1985 and 1988.



Table A.7 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Other Medical Specialty

HCPCS	Description	1985 Total T Allowed All Services Serv (in thousands)	1988 Total Allowed Services usands)	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total Allowed Charges (in mi)	1985 1988 otal Total owed Allowed rges Charges (in millions)	% of 1988 Total Allowed Charges	Average Annual Growth
90050	Office medical service, established patient,	1,040.3	1,295.5	4.40%	7.59%	\$21.9	\$30.6	2.59%	11.72%
09006	Ilmited Service Office medical service, established patient,	1,027.2	1,686.8	5.72%	17.98%	26.3	49.6	4.19%	23.61%
90070	intermediate service Office medical service, established patient,	274.1	471.8	1.60%	19.84%	8.8	18.1	1.53%	26.93%
90220	extended service Initial hospital care comprehensive history and examination, initiation of diagnostic and treat— most programs and preparation of hospital	313.1	355.6	1.21%	4.33%	22.4	31.5	2.67%	12.15%
90240	Subsequent hospital care, each day, brief service Subsequent hospital care, each day, limited	882.4	748.4 2,437.8	2.54% 8.27%	-5.35% 2.34%	17.0	16.1	1.36%	-1.64%
90260	Subsequent hospital care, each day, intermediate	2,341.7	3,476.5	11.80%	14.08%	68.7	115.6	9.77%	18.93%
90270	Subsequent hospital care, each day, extended	654.2	973.8	3.30%	14.18%	23.8	42.1	3.56%	20.94%
99173	Service Critical care, subsequent follow-up visit, tremediate examination, evaluation and/or trottment care or new illness	202.4	427.7	1.45%	28.32%	8.3	22.4	1.90%	39.39%
99174	creatment, same of non-transport for trical care, subsequent follow-up visit, extended re-transport to-examination, re-evaluation and/or treatment, same or new illness	127.0	270.3	0.92%	28.64%	9.9	16.6	1.40%	36.05%
90620 90630 95819	Initial consultation, comprehensive Initial consultation, complex Electroencephalogram (EEG) including recording awake, drowsy, and asleep, with hyperventilation and/or photic stimulation standard or portable,	735.9 188.4 279.6	983.1 298.7 368.7	3.34% 1.01% 1.25%	10.13% 16.59% 9.65%	65.9 21.4 12.8	115.6 38.3 19.5	9.77% 3.24% 1.65%	20.62% 21.31% 14.84%
95900	Same racility Nerve conduction, velocity and/or latency study	356.6	643.8	2.18%	21.76%	12.0	22.4	1.90%	23.14%
MO945	motor, each nerve Outpatient dialysis related physicians' services either provided by the physician primarily responsible for total dialysis care or under	1,446.3	1,046.6	3.55%	-10.22%	9.6	53.8	4.55%	77.67%
90937	nis/her discretion, on monthly basis Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of	0.0	80.1	0.27%		0.0	17.7	1.50%	
90951	Hemodialysis, for end-stage renal disease (ESRD), stabilizing	118.1	102.7	0.35%	-4.55%	17.3	11.4	0.97%	-12.85%

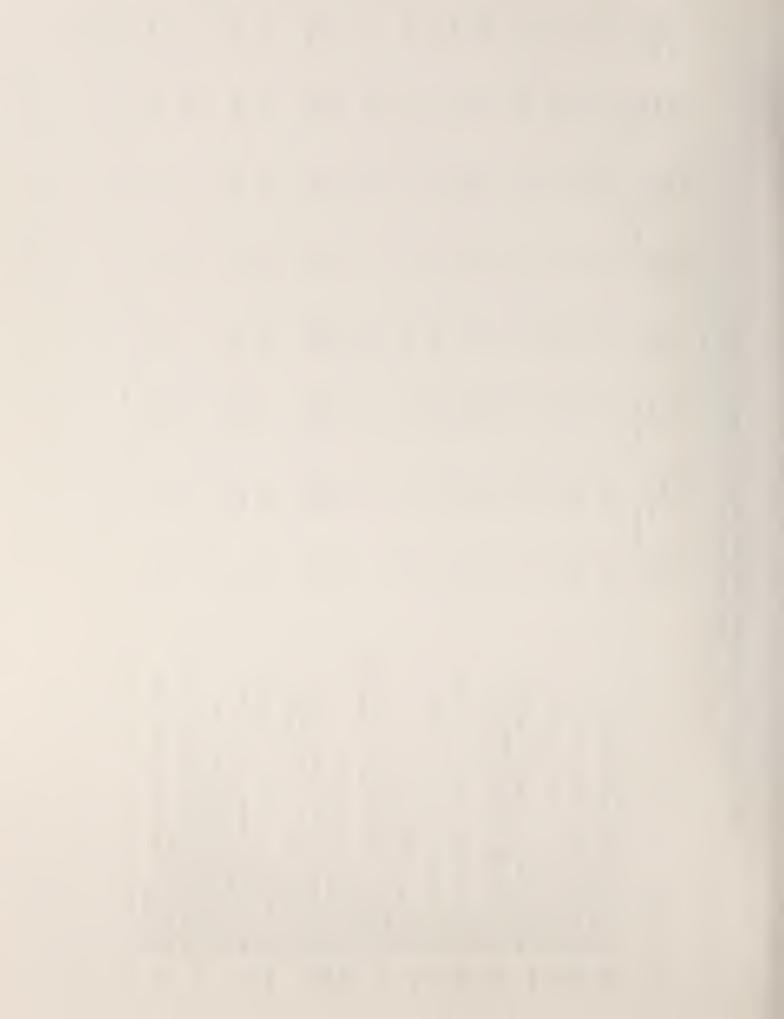


Table A.7 (Continued) Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Other Medical Specialty

HCPCS	HCPCS Description	1985 Total T Allowed All Services Serv (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1965 Total Transloved Allowed Charges Cha	1988 Total Allowed Charges lions)	% of 1988 Total Allowed Charges	Average Annual Growth
90988	90988 Supervision of hemodialysis in hospital or other	121.9	140.5	0.48%	4.86%	\$16.8	\$15.4	1.30%	-2.85%
90991	facility (excluding nome dialysis), on monthly basis Home hemodialysis care, outpatient, for those services either provided by the physician primarily responsible, for total hemodialysis care or under his direct supervision, and excludes care for complicating illnesses unrelated to hemodialysis, on monthly basis	642.5	281.4	896.0	-24.06%	11.4	e.	0.78%	-6.62%
	Medical Specialty Procedures-other	10,083.6	13,374.7	45.39%	9.87%	335.9	468.0	39.57%	11.69%
	All Medical Specialty Procedures-other	23,109.7	29,464.5	100.00%	8.43%	765.9	1,182.9	100.00\$	15.59%
	1 1000								

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files.

Note (1): The Table includes all procedures which accounted for at least 1.5% of allowed charges for Medical Specialty in any year between 1985 and 1988.

Note (2): Other Medical Specialties include neurologists, allergists, physical and rehabilitative medicine, nephrologists, pediatrics, and geriatrics.

Note (3): Some of the rapid increases in some dialysis codes may reflect either decreased use of local codes or under reporting in 1985 of dialysis services.



Table A.8 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 General Surgery

		47600 47605 47610 49505	44140 45378	35301 36830 44120	35081	19240	90620 19120	90260	90250	90060	90050	нсрсѕ
All General Surgery Procedures	Other General Surgery Procedures	Cholecystectomy Cholecystectomy with cholangiography Cholecystectomy with exploration of common duct, Repair inguinal hernia, age 5 or over	Colonoscopy, fiberoptic, beyond splenic flexure, diagnostic procedure	Thromboendarterectomy, with or without patch graft, carotid, vertebral, subclavian, by neck incision Creation of arteriovenous fistula nonautogenous graft Enterectomy, resection of small intestine with anastomosis	Direct repair of aneurysm or excision (partial or total) and graft insertion, with or without patch graft for aneurysm or occlusive disease, abdominal aorta	more lesions Mastectomy, modified radical, including axillary lymph nodes but leaving pectoral muscles	Initial consultation, comprehensive Excision of cyst, fibroadenoma, or other benign or malignant tumor aberrant breast tissue, duct lesion or nipple lesion (except 19140) male or female, 1 or	service Subsequent hospital care, each day, intermediate	examination, initiation of diagnostic and treatment programs, and preparation of hospital records Subsequent hospital care, each day, limited	Office medical service, established patient, intermediate service Initial hospital care, comprehensive history and	Office medical service, established patient,	Description
15,446.7	9,674.1	38.2 49.2 22.7 76.0	52.2 32.9	27.9 11.9 17.2	& .s	31.9	281.0 47.5	883.1	1,026.5	1,243.6 280.2	1,642.2	1985 Total T Allowed All Services Serv (in thousands)
15, /21.4	9,811.1	37.1 62.3 23.7 88.4	53.3	22.2 18.5 19.8	8 . 1	44.0	363.8 89.5	877.6	704.0	1,557.2	1,611.8	1988 Total Allowed Services Isands)
\$00.001		0.24% 0.40% 0.15% 0.56%	0.34%	0.14% 0.12% 0.13%	0.05%	0.28%	2.31%	5.58%	4.48%	9.91%	10.25%	% of 1988 Total Allowed Services
0.59%	0.47%	-0.97% 8.16% 1.39% 5.16%	0.71% 27.92%	-7.33% 16.01% 4.80%	-1.66%	11.36%	8.99% 23.51%	-0.21%	-11.81%	7.79%	-0.62%	Average Annual Growth
1,482.0	993.2	31.4 44.7 23.3 40.6	65.0 11.7	46.7 11.8 17.0	19.1	32.4	20.4 12.3	21.7	20.7	25.6 16.0	\$28.4	1985 Total T Allowed All Charges Cha
1,816.1	1,206.2	32.3 62.0 27.1 51.6	71.3 28.9	41.1 21.2 20.8	20.2	48.6	30.7 26.0	24.1	16.5	37.6 18.1	\$31.7	1988 Total Allowed Charges
100.008	66.42%	1.78% 3.41% 1.49% 2.84%	3.93% 1.59%	2.26% 1.17% 1.15%	1.118	2.67%	1.69%	1.33%	0.91%	2.07%	1.75%	% of 1988 Total Allowed Charges
410.7	6.69%	0.92% 11.50% 5.26% 8.38%	3.15% 35.05%	-4.20% 21.68% 6.97%	1.87%	14.48%	14.51% 28.23%	3.55%	-7.29%	13.77% 4.23%	3.71%	Average Annual Growth

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files.

Note: The Table includes all procedures which accounted for at least 1.5% of allowed charges for General Surgery in any year between 1985 and 1988.

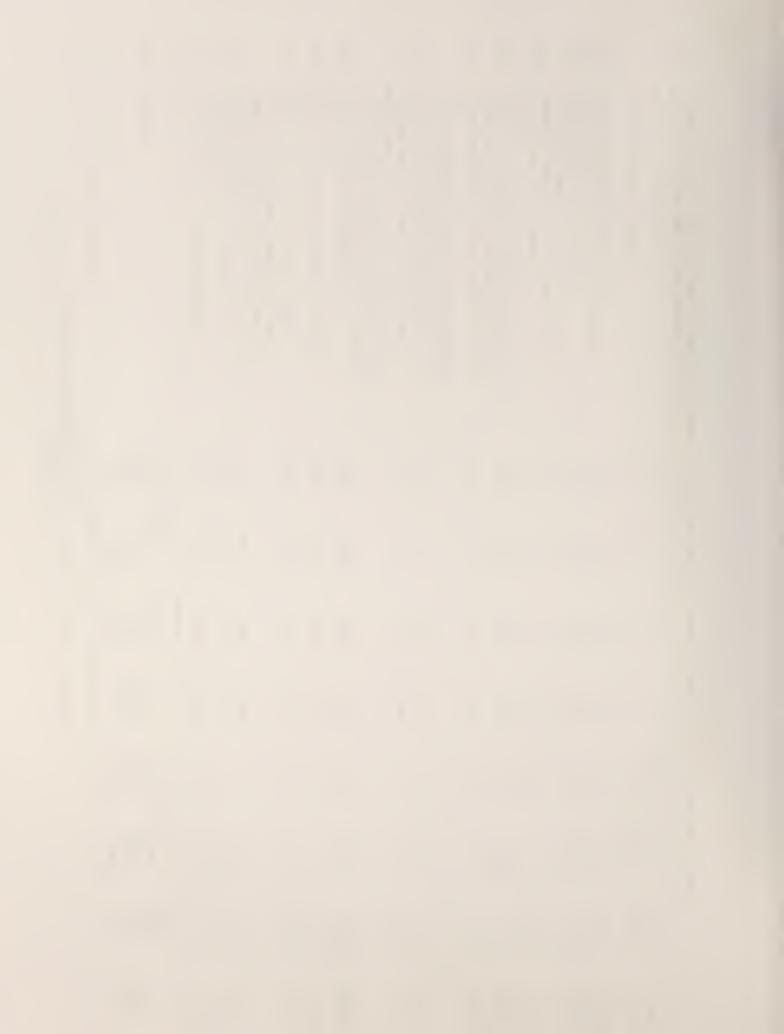


Table A.9
Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988
Ophthalmology

HCPCS	Description	1985 Total T Allowed All Services Serv (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total Translowed Alli Charges Cha	1988 Total Allowed Charges lions)	% of 1988 Total Allowed Charges	Average Annual Growth
90050	Office medical service, established patient,	1,473.8	1,845.1	+ 1.97%	7.78%	\$28.0	\$39.6	1.22%	12.30%
92004	Innied Service Ophthalmological services: medical examination and evaluation with initiation of diagnostic and treatment program comprehensive, new patient, one	972.6	1,274.3	5.51%	9.43%	38.1	55.7	1.72%	13.54%
92012	or more Visits Ophthalmological services: medical examination and evaluation with initiation or continuation of diagnostic and treatment program intermediate,	2,310.7	3,686.6	15.93%	16.85%	62.2	116.9	3.61%	23.41%
92014	established parient Ophthalmological services: medical examination Opptrehensive, established patient, one or more	2,154.8	3,700.6	15.99%	19.75%	81.1	153.5	4.75%	23.71%
92083	visual field examination with medical diagnostic evaluation extended examination, quantitative perimetry (eg, manual static and kinetic perimetry on goldman or tubingen perimeter or equivalent, or automated static perimetry complex, such as octopus program 31 & 41,	124.5	509.5	2.20%	59.95%	5.0	31.1	896.0	83.34%
92235	or 32 & 42) Ophthalmoscopy, with medical diagnostic evaluation with fluorescein angiography (includes multiframe	220.2	352.7	1.52%	17.00%	25.4	46.0	1.42%	21.92%
65855	photography) Trabeculoplasty by laser surgery, one or more	34.3	89.2	0.39%	37.54%	22.8	76.1	2.35%	49.42%
66170		25.0	28.9	0.13%	5.01%	22.2	25.4	0.79%	4.66%
66820	Discission of secondary membraneous cataract ('after cataract') and/or anterior hyaloid incisional	72.1	15.9	0.07%	-39.65%	25.6	6.4	0.20%	-36.92%
66821	reconsique (ziegler of wheeler knile) Discission of secondary membraneous cataract ('after cataract') and/or anterior hyaloid, laser surgery	9.0	366.3	1.58%	243.86%	4.3	188.0	5.81%	251.78%
66920	(one or mofe stages) Extraction of lens with or without iridectomy intracapsular, with or without enzymes	21.1	2.7	0.01%	-49.53%	25.9	2.6	0.08%	-53.44%



Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Table A.9 (Continued) Ophthalmology

Average Annual Growth

Total Allowed Charges

1985 Total Allowed

% of 1988 Total Allowed

Charges

Average Annual Growth

1988 Total Allowed

Total Allowed Services

Total Allowed Services

HCPCS Description

		(in thousands)	sands)	Services		(in millions)	lions)	Charges	
66940	66940 Extraction of lens with or without iridectomy extracapsular	18.8	5.1	0.02%	-35.30%	\$22.5	\$4.9	0.15%	-39.82%
66983		205.5	36.0	0.16%	-44.06%	333.5	57.2	1.77%	-44.42%
66984		409.0	945.1	4.08%	32.20%	9.869	1,504.8	46.51%	29.15%
66985		36.8	34.3	0.15%	-2.30%	37.8	34.2	1.06%	-3.22%
67210		7.71	51.1	0.22%	42.55%	10.1	39.2	1.21%	56.88%
67228		66.3	111.9	0.48%	19.05%	43.8	87.9	2.72%	26.14%
76516 76519		511.6 19.3	481.4	2.08%	-2.01% 179.43%	64.7	47.1	1.45%	-10.05% 166.18%
	Other Ophthalmology Procedures	8,043.6	9,188.0	39.70%	4.53%	585.0	678.1	20.96%	5.05%
1	All Ophthalmology Procedures	16,746.6	23,146.1	100.00%	11.39%	2,138.6	3,235.4	100.00%	14.80%

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files.

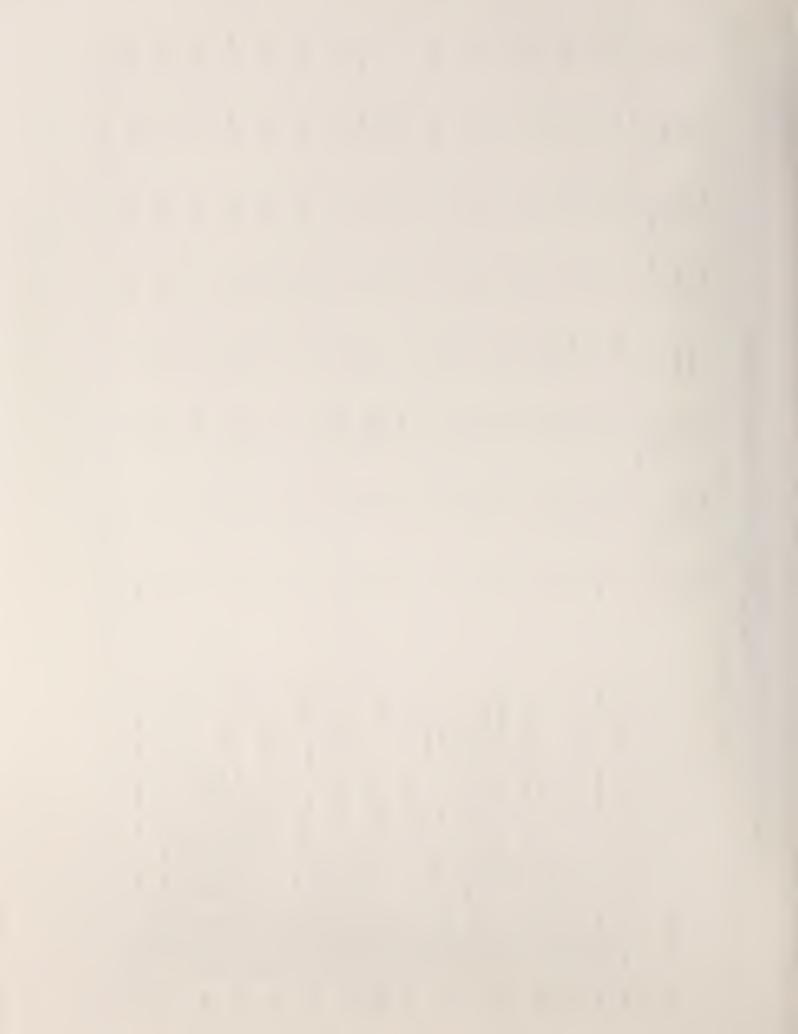
procedure for removal of secondary cataracts (66821) led to a substitution of this procedure for the incisional technique (66820). Finally, a new ophthalmic Note (1): The Table includes all procedures which accounted for at least 1.5% of allowed charges for Ophthalmology in any year between 1988 and 1988.

Note (2): Many of the charges in this table reflect changes in technology or in CPT-4 codes. The development of the extracapsular cataract removal technique (66984) resulted in the substitution of this procedure for several others, eg. 66920 ,669810, 66983 and 66985. The development of the laser surgery biometry procedure (76519) partially substituted for an existing procedure (76516).



Table A.10 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985–1988 Orthopedic Surgery

HCPCS	Description	1985 Total Allowed Services (in tho	1985 1988 Total Total lowed Allowed vices Services (in thousands)	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total Allowed Charges (in mi	1985 1988 otal Total owed Allowed rges Charges (in millions)	% of 1988 Total Allowed Charges	Average Annual Growth
90020	Office medical service, new patient, comprehensive	205.3	249.1	2.04%	6.65%	\$8.6	\$13.2	1.00%	15.29%
90050	service Office medical service, established patient limited	895.6	1,075.1	8.79%	6.28%	17.4	23.6	1.80%	10.71%
09006	service Office medical service, established patient,	713.3	1,047.5	8.57%	13.67%	16.6	28.8	2.20%	20.02%
0000	intermediate service	0 0 0 0 0	136 6	-	6 578	-		6	•
20610	Initial consultation, comprehensive Arthrocentesis, aspiration and/or injection major joint or bursa (eg, shoulder, hip, knee joint, subacrominial bursa)	358.2	480.0	3.92%	10.25%	10.0	14.9	1.14%	14.25%
27125	Hemiarthroplasty of hip (partial hip replacement)	11.8	20.3	0.17%	19.77%	16.9	33.4	2.55%	25.46%
27130	Arthroplasty, acetabular and proximal femoral prosthetic replacement (total hip replacement) simple	47.0	58.6	0.48%	7.65%	116.2	154.4	11.78%	9.92%
27131	Arthroplasty, acetabular and proximal femoral prosthetic replacement (total hip replacement),	7.6	0.1	\$00.0	-81.97%	24.2	0.2	0.01%	-81.38%
27132	Compression of previous hip surgery to total hip	0.0	4.7	0.04%		0.0	13.3	1.01%	
27134	Revision of total hip arthroplasty, both components	0.0	7.0	990.0	0	0.0	23.1	1.778	6
27135	Secondary reconstruction or revision of arthroplasty, any type	0.9	0.0	\$00.0 0.00	-90.60%	14.7		%00.0 0.00	-90.33%
27235	Treatment of closed or open femoral fracture, proximal end, neck, in situ pinning of undisplaced or impacted fracture	10.1	8.9	0.07%	-3.97%	12.1	11.4	0.87%	-2.12%
27236	Open treatment of closed or open femoral fracture, proximal end, neck, internal fixation or prosthetic replacement	54.2	49.4	0.40%	-3.04%	66.5	65.2	4.98%	-0.65%
27244	Open treatment of closed or open intertrochanteric, pertrochanteric, or subtrochanteric femoral fracture, with internal fixation	72.9	82.4	0.67%	4.19%	86.0	105.3	8.04%	6.98%
27447	Arthroplasty, knee, condyle and plateau, medial and lateral compartments with or without patella resurfacing fotal knee replacement)	42.2	6.99	0.55%	16.66%	9.66	165.8	12.66%	18.51%
29881	Arthroscopy, knee, surgical, for infection, lavage and drainage with meniscectomy (medial or lateral including any meniscal shaving)	8.5	24.0	0.20%	41.50%	7.7	24.7	1.88%	47.66%
64721	Neuroplasty and/or transposition median nerve at	23.8	33.4	0.27%	11.88%	10.9	15.9	1.22%	13.33%
73510	Radiologic examination, hip complete, minimum of two views	279.0	369.0	3.02%	9.77%	10.2	15.2	1.16%	14.20%



Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Orthopedic Surgery Table A.10 (Continued)

Note (1): The Table includes all procedures which accounted for at least 1.5% of allowed charges for Orthopedic Surgery in any year between 1985 and 1988.

Note (2): Several changes were made to hip replacement codes during this period. Specifically, the 1987 edition of CPT-4 eliminated 27131 and directed physicians to use 27132. In addition, procedure 27135 was eliminated and physicians were directed to use 27132. In addition, procedure 27135 was eliminated and physicians were directed to use 27134, 27137 or 27138. Source: Tabulations from the 1985 and 1988 BMAD Procedure Files.



Table A.11 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Thoracic Surgery

		1985	1988	% of	į	1985	1988	% of	
		Total	Total	1988 Total	Average	Total	Total	1988	Average
HCPCS	Description	Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
		(in thousands)	isands)	Services		(im mi)	(in millions)	Charges	
90620	Initial consultation, comprehensive	89.1	111.5	5.09%	7.77%	\$7.0	\$9.8	1.17%	12.21%
32480		7.4	8.3	0.38%	3.92%	12.7	15.6	1.86%	7.03%
33206		7.9	4.1	0.19%	-19.43%	9.8	4.5	0.54%	-19.18%
33207		11.5	14.6	0.67%	8.27%	12.4	17.3	2.05%	11.49%
33405		5.6	- 8.4	0.39%	14.968	16.9	27.5	3.27%	17.56%
		,		;	,	•	;		;
33430	Replacement, mitral valve, with cardiopulmonary	3.5	4.6	0.21\$	9.18%	10.8	14.8	1.75%	11.03%
33510		3.8	5.2	0.24%	10.51%	10.4	15.5	1.84%	14.45%
	77	a	13.5	8090	17 78%	33 0	2 7 2	8LV 9	17 13%
33511	coronary artery bypass, autogenous gratt, (eg, sapphenous variety) two	n.	7.	8 8 9 9 9	,			, r	\$CT:/T
		3 7.1	. 9.	, מכר נ	17 208	L 4L	0 761	15 10%	10 648
33512	Coronary artery bypass, autogenous grart, (eg, saphenous vein or internal mammary artery) three	17.3	28.3	1.29	17.30%	4.	6.721	13.18\$	19.048
33513		15.0	23.6	1.08%	16.49%	66.3	113.3	13.46%	19.58%
	coronary arteries							1	
33514	Coronary artery bypass, autogenous graft, (eg, saphenous vein or internal mammary artery) five	6.3	9.5	0.42%	13.80%	29.1	46.3	5.50%	16.80%
7.100			,	128	203 6	7 01	٠ 71	1 603	10 703
33516		7:7	7:7	61.0	5	?		60.1	66.01
			1			;		•	1
35081	Direct repair of aneurysm or excision (partial or total) and graft insertion, with or without patch for anouncem or conjuctive diseases abdominal anotta	5.1). (% 9 7 · 0	§77.4	17.6	15.5	1.848	7.35%
35301	Ī	8.	8 7 L	0 73%	-5 04%	30.6	0 60	3 45%	-1 71%
	incomposition to with or without parenty graft, carotid, vertebral, subclavian, by neck incision								-
35556	Bypass graft, with vein femoral-popliteal	4.7	3.8	0.17%	-6.58%	8.2	7.4	0.88%	-3.34%
35656		3.6	4.8	0.22%	10.39%	6.1	0.6	1.06%	13.64%
93870		29.5	63.6	2.91%	29.61%	3.6	8 v.	1.01%	33.70%
	B-scan with or without pulsed doppler flow evaluation, doppler flow or duplex scan with spectrum analysis)								



Table A.11 (Continued)
Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988
Thoracic Surgery

Average Annual Growth	9.95%	12.69%
% of 1988 Total Allowed Charges	36.97%	100.00%
1988 Total Allowed Charges lions)	\$311.4	842.1
1985 19 Total Tot Allowed Allow Charges Charg (in millions)	\$234.2	588.5
Average Annual Growth	4.92%	5.75%
% of 1988 Total Allowed Services	85.01%	100.00%
1988 Total Allowed Services	1,860.7	2,188.7
1985 1988 Total Total Allowed Allowed Services Services (in thousands)	1,611.2	1,850.9
HCPCS Description	Other Thoracic Surgery Procedures	All Thoracic Surgery Procedures

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files.

Note: The Table includes all procedures which accounted for at least 1.5% of allowed charges for Thoracic Surgery in any year between 1985 and 1988.

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Table A.12 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Urology

Allowed Allowed Growth Charges Charges Allowed Growth Charges (in millions) Charges Growth Charges Charges Charges Services Services Services Services Charges			1985 Total	1988 Total	% of 1988	Average	1985 Total	1988 Total	\$ of 1988	Average
office medical service, established patient, 655.3 511.1 3.731 3.931 57.0 58.7 0.564 office medical service, established patient, 65.2 1,090.2 7.964 5.631 16.8 22.2 2.471 office medical service antablished patient, 7.75 1,196.6 8.744 13.871 17.3 22.8 3.313 2.2 2.471 1.1846 service antablished patient, 7.75 17.2 214.2 1.564 7.753 17.2 22.6 2.001 11.2 17.1 1.184 1.196.6 8.744 13.871 17.3 22.8 3.313 2.2 2.471 1.184 1.196.6 8.744 13.871 17.3 22.8 3.313 2.2 2.471 1.184 1.196.6 8.744 13.871 17.3 22.8 3.313 2.2 2.471 1.184 1.196.6 8.744 13.871 1.196.6 8.745 1.197 1.197 1.198.6 8.745 1.198.7 1.198.7 1.198.7 1.198.7 1.198.8	HCPCS		Allowed Services (in thou	Allowed Services Isands)	Total Allowed Services	Annual Growth	Allowed Charges (in mil	Allowed Charges lions)	Total Allowed Charges	Average Annual Growth
Defice sections of the set stabilished patient, 100.2 1,000.2 1,001. 1,000.2 1,001. 1,000.2 1,001. 1,100.2 1,001. 1,100.2 1,001. 1,100.2 1,100	90040	Office medical service, established patient,	455.3	511.1	3.73%	3.93%	\$7.0	\$8.7	0.96%	7.19%
office middle service, setablished patient, 11.96.6 8.741 11.971 17.3 29.8 3.1314 2 Interemidical service, setablished patient, 11.96.6 11.195 11.256 17.551 12.2 18.0 2.000 11.195 11.1	90050		925.0	1,090.2	7.96%	5.63%	16.8	22.2	2.47%	9.87%
Initial consultation, comprehensive definition of the consultation, comprehensive definition of the consultation, comprehensive definition of the consultation, comprehensive definition and consultation, control added the consultation and consul	09006	<pre>limited service infice mediate carvice, established patient, infice addition</pre>	810.5	1,196.6	8.74%	13.87%	17.3	29.8	3.31%	20.03%
Litheritary, extracrporeal shock wave Litheritary, extracrporeal shock wave Cystourethroscopy (separate procedure) Cystourethroscopy (separate procedure) Litheritary, with urethral cathefeatation, Litheritary, with urethral cathefeatation Litheritary, with relativation fincluding Cystourethroscopy, with full uniquation including Cystourethroscopy, with full uniquation fincluding Cryosurgery or laser surgery) and/or resection of Cystourethroscopy, with full uniquation fincluding Cystourethroscopy, with full uniquation fincluding Cryosurgery or laser surgery) and/or resection of Cystourethroscopy, with full uniquation fincluding Cystourethroscopy, with full uniquation of uniqual page bladder tumor(s) Cystourethroscopy, with full uniquation of posterate including Cystourethroscopy, with catheritary conducts Cystourethroscopy, with an uniquation of posterate including Cystourethroscopy, with an uniquation of posterate including Cystourethroscopy, with an uniquation of posterate including Cystourethroscopy, with an uniquation of posterate needle or punch, single or multiple 17.5 24.9 0.184 11.304 11.304 11.31 11.5	50230	Intermediate service Initial consultation, comprehensive Nephrectomy, including partial ureterectomy, any approach including rib resection radical, with regional	171.2	214.2	1.56%	7.75%	12.2	18.0	2.00%	13.85%
Optourethroscopy (separate procedure) Optourethroscopy (such truncation, or architecture) Optourethroscopy (such truncation, or architecture) Optourethroscopy, with truncation, or architecture) Optourethroscopy, with truncation of resection of cyclosiste truncation c	0620	lymphadenectomy Lithotripsy, extracorporeal shock wave	1.2	17.8	0.13%	148.36%	1.1	16.8	1.87%	147.20%
with or without irrigation, instillation, or uredecopyelography, acclusive of radiologic service precipyelography, acclusive of radiologic coverience properties of radiologic coverience to reaction of medium ladder tumor(s) crystourethroscopy, with fulguration (including crystourethroscopy, with fulguration of the capturethroscopy, with fulguration of the capturethroscopy, with call the country and injection procedure for cystography, and an injection procedure for cystography, and injection of prostate, including control of postogrative bleeding, complete control of postogrative bleeding, complete control of postogrative bleeding, complete control of postogrative and internal urethrocomy are including subcapsular), with or without testicular prosthesis, scrotal or inguinal approach bilateral approach bilateral approach bilateral any approach	2000	Cystourethroscopy (separate procedure)	411.9	570.4	4.178	11.46%	37.5	63.6	7.07\$	19.28%
### 11.3 11.3 11.3 11.3 11.5 ### Control of prostate, including complete control of prostate needle or punch, single or multiple and part size sugary) and/or tesection of cystourethroscopy, with fulguration (including cystourethroscopy, with fulguration (including cystourethroscopy, with fulguration (including cystourethroscopy, with fulguration of uncluding cystourethroscopy, with calibration and/or taser sugary) and/or resection of, large bladder tunor(s) and injection procedure for cystourethroscopy, with calibration and injection procedure for cystourethroscopy, with cystourethroscopy usethral resection of prostate, including complete control of prostate, including complete control of prostate, including subcapsular), with or control of cystourethroscopy, usethral calibration and internal calibration and internal control of prostate, including subcapsular), with or inguinal approach bilateral functual prosthesis, scrotal or inguinal approach bilateral control cystourethroscopy in the cystourethrosco		with or without irrigation, instillation, or ureteropyelography, exclusive of radiologic								
Cystourethroscopy, with fulguration (including cryosucethroscopy), with fulguration (including cryosucethroscopy), with fulguration of, aser surgery) and/or resection of, cryosucrept or taser surgery) and/or resection of, cystourethroscopy, with calibration and/or dilation of urethral stricture or stenosis, with cor without meatocomy and injection procedure for cystography, male or female Transurethral resection of bladder neck (separate procedure) Transurethral resection of bladder neck (separate procedure) Transurethral resection of prostate, including procedure) Transurethral resection of prostate, including complete (vasectomy, meatocomy, cystourethroscopy, urethral calibration and/or dilation, and internal urethrocomy are included) Orchiectomy, simple (including subcapsular), with or without testicular prosthesis, scrotal or inguinal approach bilateral Biopsy, prostate needle or punch, single or multiple So.3 97.2 0.71% 24.55% 4.8 11.3 1.26% 3 39.2 0.54 1.3 1.36% 3 30.5	52235	Service Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) and/or resection of medium bladder tumor(s)	19.4	21.1	0.15%	2.93%	11.8	14.2	1.58%	6.37%
Agriculture or stenosis, with or without mactoromy and injection procedure for victorot procedure for victorot mactoromy and injection procedure for female ransurethral resection of bladder neck (separate Transurethral resection of prostate, including complete Transurethral resection, without calibration and/or dilation, and internal calibration and/or dilation, and internal urethrotomy representation and/or dilation, with or life the conversation and/or dilation, with or life the conversation and/or dilation and/or dilation, with or life the conversation and/or dilation, and internal urethrotomy single or multiple So.3 97.2 0.71% 24.55% 4.8 11.3 1.26% 3 1.26%	52240	Cystourethroscopy, with fulguration (including cryosurgery or surgery) and/or resection of,	18.1	19.6	0.14%	2.69%	13.9	17.6	1.96%	8.23%
Transurethral resection of bladder neck (separate procedure) Transurethral resection of prostate, including complete control of postoperative bleeding, complete (vasectomy, mate of including subcapsular), with or elibration and/or dilation, and internal urethrotomy are included) orchiectomy, simple (including subcapsular), with or without testicular prosthesis, scrotal or inguinal approach bilateral Biopsy, prostate needle or punch, single or multiple So.3 97.2 0.71% 24.55% 4.8 11.3 1.26% 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	52281	Cystourethroscopy, with calibration and/or dilation of urethral stricture or stenosis, with or without meatotomy and injection procedure for	47.5	93.5	0.68%	25.30%	7.9	18.0	2.00%	31.81%
Transuctive bleeding, complete (vasectiom, postparative bleeding, complete (vasectomy, meatotomy, cystourethroscopy, urethral calibration and/or dilation, and internal urethrotomy are included) Orchiectomy, simple (including subcapsular), with or vithout testicular prosthesis, scrotal or inguinal approach bilateral Biopsy, prostate needle or punch, single or multiple any approach any approach	2500	Cystography, mate of temate Transurethral resection of bladder neck (separate Trocedure)	14.4	9.4	0.078	-13.13%	9.2	6.2	0.68%	-12.60%
Orchiectomy, simple (including subcapsular), with or 17.5 24.9 0.18% 12.53% 6.9 11.2 1.25% ulthout testicular prosthesis, scrotal or inquinal approach bilateral approach bilateral Blopsy, prostate needle or punch, single or multiple 50.3 97.2 0.71% 24.55% 4.8 11.3 1.26% any approach	52601	Transurethral resection of prostate, including control of postoperative bleeding, complete (vasectomy, meatotomy, cystourethroscopy, urethral calibration and/or dilation, and internal urethrotomy are included)	207.3	215.5	1.57%	1.30%	218.0	243.1	27.00%	3.70%
Biopsy, prostate needle or punch, single or multiple 50.3 97.2 0.71% 24.55% 4.8 11.3 1.26% any approach	4521	orchiectomy, simple (including subcapsular), with or without testicular prosthesis, scrotal or inquinal approach bilateral	17.5	24.9	0.18%	12.53%	6.9	11.2	1.25%	17.448
	5700	Biopsy, prostate needle or punch, single or multiple any approach	50.3	97.2	0.71%	24.55%	4.8	11.3	1.26%	33.23%

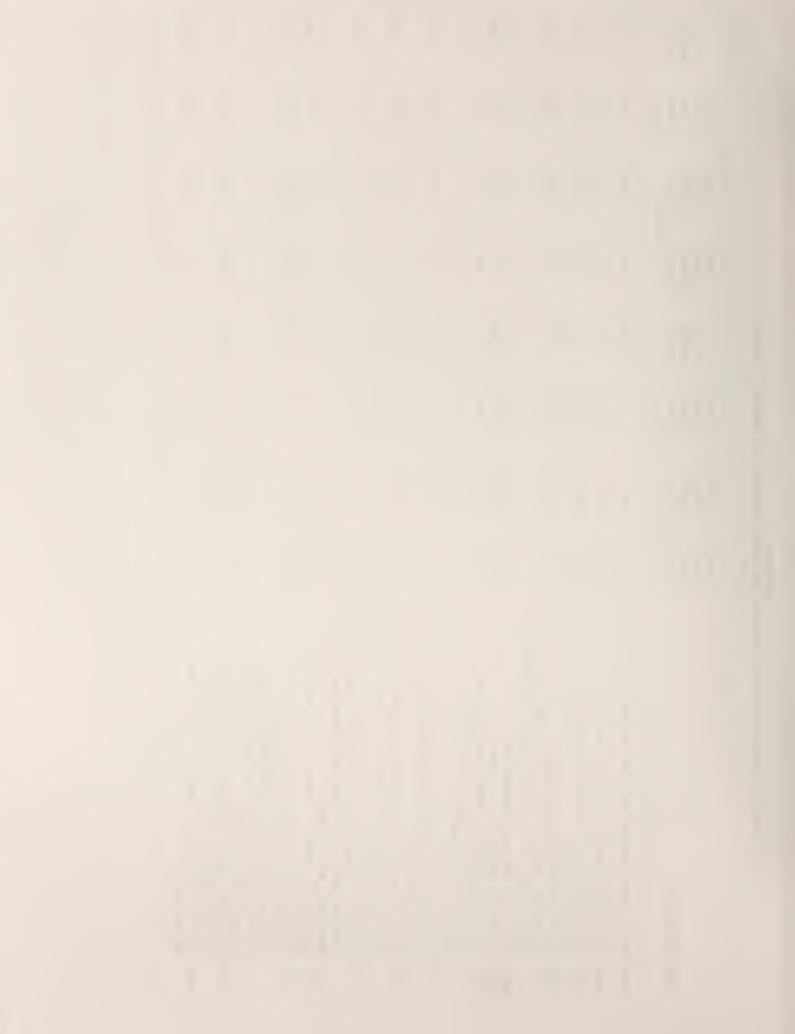


Table A.12 (Continued)
Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988
Urology

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files. Note: The Table includes all procedures which accounted for at least 1.5% of allowed charges for Urology in any year between 1985 and 1988.



Table A.13 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Dermatology

15.6 15.7 13.74 15.1 15.8 1.32	HCPCS	HCPCS Description	1985 Total Tall Allowed All. Services Serv	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total T. Allowed All. Charges Cha	1988 Total Allowed Charges lions)	% of 1988 Total Allowed Charges	Average Annual Growth
Direct section, setablished patient, 122.8 251.3 2.014 -1.434 4.7 4.9 1.124 Direct setablished patient, 122.8 122.8 251.3 2.014 -1.434 4.7 4.9 1.124 Direct setablished patient, 122.8 122	90015	1	156.6	230.4	1.77%	13.74%	\$5.1	\$8.5	1.92%	18.51%
### 19.5 19.7 19.1 19.5 19.6 19.8 19.5 19.6 19.8 19.5 19.6	90040		272.8	261.3	2.01%	-1.43%	4.7	4.9	1.12%	2.00%
Decition and state service, established patient, 721.8 1,065.1 8.204 13.854 16.6 29.1 6.574 Intermediate service, established patient, 721.8 1,065.1 19.814 10.834 14.5 22.4 5.064 Intermediate service, subtraction and/or murcous machines (including simple closure), unit least of the closure), unit least of the closure, unit listed of the closure, light of the closure per closure, including simple closure), unit least of the closure, closure being least of the closure, light of the closure per closure, closure, closure, light of the closure per closure, c	90050	<pre>brief service Office medical service, established patient, ':=:tal according</pre>	719.3	885.6	6.82%	7.18%	14.3	19.7	4.46%	11.36%
1992 of skin, sübcutaneous tissue and/or mucous membrane (including sinple tissue) (including sinple closure), unless sample associated (separate procedure), one lasion membrane (including sinple closure), unless since demonstrate (including sinple closure), unless since demonstrate (including sinple closure), one lasion disaster 1.1 to 2.0 cm 1992 1.734 1.734 1.734 1.734 1.734 1.734 1.734 1.734 1993 1.734	09006		721.8	1,065.1	8.20%	13.85%	16.6	29.1	6.57%	20.49%
### Control of the Penign lesion (unless listed action (unless lis	11100		379.2	516.2	3.98%	10.83%	14.5	22.4	5.06%	15.66%
Excision, other benign lesion (unless listed means below thereby face, ears, eyelids, nose, lips, mucous membrane lesion diameter 1.1 to 2.0 cm membrane lesion diameter 1.1 to 2.0 cm membrane lesion diameter 1.1 to 2.0 cm less; eyelids, so 23.5 59.8 0.46% 3.81% 6.3 7.8 lesion diameter 0.5 cm or less recision, malignant lesion, face, ears, eyelids, so 3.0 111.6 0.86% 6.27% 13.3 18.3 nose, lips; lesion diameter 0.5 cm or less recision, malignant lesion, face, ears, eyelids, so 3.0 111.6 0.86% 6.27% 13.3 18.3 nose, lips; lesion diameter 1.0 to 2.0 cm less recision, malignant lesion, face, ears, eyelids, so 3.0 111.6 0.86% 6.27% 13.3 18.3 nose, lips; lesion diameter 1.0 to 2.0 cm less recision, malignant lesion, face, ears, eyelids, so 3.0 111.6 0.88% 8.88% 18.60% 23.0 41.9 lesion lesion or without without without without any location, including local ansathesia, one lesion or premalignant lesions in any location, including local ansathesia, eacond and third lesions or premalignant lesions in any location, including local ansathesia, eacond and third lesions or premalignant lesions in any location, including local ansathesia, eacond and third lesions or premalignant lesions in any location, including local ansathesia, eacond and third lesions or premalignant lesions in any location, including local ansathesia, eacond and third lesions or premalignant lesions in any location, including local ansathesia, eacond and third lesions each additional lesion	11441	otherwise instea (separate procedure), one lesion Excision, other benign lesion (unless listed elsewhere), face, ears, eyelids, nose, lips, microis membrane: lesion diameter 0 6 to 1 0 cm	104.8	7.121	0.94%	5.12%	5.1	1.6	0.37%	-31.50%
Excision, malignant leasion, trunk, arms, or legs; 41.7 54.3 0.42% 9.19% 5.4 7.9 factsion, malignant leasion, trunk, arms, or legs; 53.5 59.8 0.46% 3.81% 6.3 7.8 factsion, malignant leasion, face, ears, eyelids, nose, lips; leason diameter 0.5 cm or less Excision, malignant lesion, face, ears, eyelids, 90.8 107.7 0.83% 5.86% 16.6 22.0 for lose, lips; lesion diameter 10 to 2.0 cm sose, lips; lesion diameter 10 to 2.0 cm bestruction malignant lesions or premalignant lesions in any location, including local anesthesia, one lession lessions or premalignant lesions in any location, including local anesthesia, second and third lesions, each bestruction by any method, with or without surgical curettement, all facial lesions or premalignant lesions in any location, including local anesthesia, second and third lesions, each bestruction by any method, with or without surgical curettement, all facial lesions, each bestruction by any method, with or without surgical curettement, all facial lesions or premalignant lesions in any location, including local anesthesia, second and third lesions or premalignant lesions in any location, including local anesthesia, over three lesions, each additional lesion in any location, including local anesthesia lesions in any location, including local anesthesia lesions, each lesions and lesions and lesions les lesions les lesions les les les les les les les les les le	11442	Excision, other benign lesion (unless listed elsewhere), face, ears, eyelids, nose, lips, mucous membrane lesion dismeter 1 1 to 2 0 cm	66.7	67.8	0.52%	0.54%	4.4	5.3	1.21%	6.92%
Excision, malignant lesion, face, ears, eyelids, 53.5 59.8 0.46\$ 3.81\$ 6.3 7.8 nose, libps; lesion diameter 0.5 cm or less nose, libps; lesion diameter 0.5 cm or less nose, libps; lesion diameter 0.5 cm or less nose, lipps; lesion diameter 0.5 cm or less nose, lipps; lesion diameter 0.5 cm or less nose, lipps; lesion diameter 0.5 cm or lesion nose, lipps; lesion diameter 1.0 cc. 2.0 cm nose, lipps; lesion nor lesions or lesion nor lesio	11602	memorane reston drameter 1.1 to 2.0 cm Excision, malignant lesion, trunk, arms, or legs; lesion diameter 1 1 to 2 0 cm	41.7	54.3	0.42%	9.19%	5.4	7.9	1.79%	13.33%
Excision, maignant leminon, face, ears, evelids, nose, lips, lesion diameter 0.5 to 1.0 cm nose, lips, lesion diameter 0.5 to 1.0 cm Excision, maignant lesion, face, ears, evelids, nose, lips, lesion diameter 1.0 to 2.0 cm Excision, maignant lesion, face, ears, evelids, nose, lips, lesion diameter 1.0 to 2.0 cm Excision, maignant lesion, face, ears, evelids, nose, lips, lesion diameter 1.0 to 2.0 cm Excision, maignant lesion, face, ears, evelids, not libror without august lesions or premalignant lesions in any location, including local anesthesia, second and third lesions, each permalignant lesions in any location, including local anesthesia, each each each each each each each each	11640	Excision, malignant lesion, face, ears, eyelids, note line: lesion diameter 0 5 cm or less	53.5	59.8	0.46%	3.81%	6.3	7.8	1.77%	7.64%
Excision, malignant lesion, face, ears, eyelids, onese, lips; lesion diameter 1.0 to 2.0 cm Destruction by any method, with or without suggical curettement, all facial lesions or premalignant lesions in any location, including permalignant lesions in any location, including premalignant lesions in any location, including permalignant lesions or premalignant lesions or premalignant lesions in any location, including local anesthesia, second and third lesions or premalignant lesions in any location, including local anesthesia, over three lesions, each additional lesions or premalignant lesions in any location, including local anesthesia, over three lesions, each additional lesion	11641	Excision, malignant lesion, face, ears, eyelids, nose. lips, lesion diameter 0.5 to 1.0 cm	93.0	111.6	0.86%	6.27%	13.3	18.3	4.14%	11.28%
Destruction by any method, with or without surgical curettement, all facial lesions or premalignant lesions in any location, including local anesthesia, one lesion by any method, with or without surgical curettement, all facial lesions or premalignant lesions in any location, including local anesthesia, second and third lesions or premalignant lesions or perturbation by any method, with or without surgical curettement, all facial lesions or premalignant lesions in any location, including local anesthesia, over three lesions, each additional lesion	11642		8.06	107.7	0.83%	5.86%	16.6	22.0	4.98%	9.85%
Destruction by any method, with or without Surgical curettement, all facial lesions or premalignant lesions in any location, including local anesthesia, second and third lesions or premalignant lesions in any location, including local anesthesia, second and third lesions or premalignant lesions in any location, including local anesthesia, over three lesions, each additional lesion	17000	Destruction by any method, with or without surgical curettement, all facial lesions or premalignant lesions in any location, including local anaethesis one lesion	746.2	1,244.8	9.59%	18.60%	23.0	41.9	9.45%	22.01%
Destruction by any method, with or without 561.2 1,276.2 9.83\$ 31.50\$ 4.9 10.3 bestruction by any method, with or without surgical curettement, all facial lesions or premalignant lesions in any location, including local anesthesia, over three lesions, each additional lesion	17001	Destruction by any method, with or without surgical curettement, all facial lesions or premalignant lesions in any location, including local angelies occurs and third lesions.	510.6	1,145.8	8.83%	30.92%	8.2	18.0	4.07%	30.31%
	17002	Destruction by any method, with or without surgical curettement, all facial lesions or premalignant lesions in any location, includ local anesthesia, over three lesions, each additional lesion	561.2	1,276.2	9.83%	31.50%	4.9	10.3	2.33%	28.57%

Table A.13 (Continued)
Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988
Dermatology

HCPCS	HCPCS Description	1985 Total T Allowed All Services Serv	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total T Allowed All Charges Cha	1988 Total Allowed Charges lions)	% of 1988 Total Allowed Charges	Average Annual Growth
17100	17100 Destruction by any method of benigm skin lesions on any	369.7	470.9	3.63%	8.40%	\$8.9	\$12.9	2.91%	13.24%
17304	area other than the race, including local anesthesia 17304 Chemosurgery (Mohs' Technique), first stage, fresh tissue technique, including the removal of all gross	8.5	21.2	0.16%	35.38%	2.1	6.4	1.44%	45.73%
88304		420.1	585.8	4.51%	11.72%	12.7	19.2	4.33%	14.77%
	Other Dermatology Procedures	3,939.1	4,756.2	36.64%	6.49%	131.9	186.4	42.09%	12.24%
	All Dermatology Procedures	9,255.6	12,982.4	100.00%	11.94%	297.9	443.0	100.00%	14.14%
1									

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files. Note: The Table includes all procedures which accounted for at least 1.5% of allowed charges for Dermatology in any year between 1985 and 1988.



Table A.14 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Other Surgical Specialty

HCPCS	Description	1985 Total T Allowed All Services Serv (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total T Allowed All Charges Cha	1988 Total Allowed Charges	% of 1988 Total Allowed Charges	Average Annual Growth
90015		285.0	345.3	2.75%	6.62%	\$9.1	\$12.3	1.35%	10.49%
90020	service of service, new patient, comprehensive	362.1	483.5	3.85%	10.12%	14.1	22.5	2.47%	16.71%
90050	Ť	1,075.2	1,117.1	8.89%	1.28%	21.3	24.5	2.69%	4.77%
09006	•	1,050.5	1,445.7	11.51%	11.23%	24.4	38.6	4.24%	16.58%
90070	Office medical service, established patient,	333.1	464.1	3.70%	11.70%	9.3	15.4	1.70%	18.30%
90080	office mediatory of the control of t	253.7	344.5	2.74%	10.73%	8.8	13.7	1.50%	15.99%
90620	Initial consultation, comprehensive	191.9	228.0	1.82%	5.93%	14.0	19.2	2.10%	11.01%
31575	Laryngoscopy, flexible fiberoptic, diagnostic	28.8	78.5	0.63%	39.65%	3.0	7.6	1.078	47.72%
58120	Dilation and curettage, diagnostic and/or therapeutic (Nonobstetrical)		44.2	0.35%	4.89%	æ.	11.5	1.26%	5.62%
58150	Total hysterectomy (corpus and cervix), with or without removal of tube(s) with or without removal of ovary(s)	20.6	22.7	0.18%	3.34%	20.8	24.7	2.71\$	5.90%
58265	Vaginal Hysterectomy	10.6	12.2	0.10%	4.84%	11.1	14.0	1.54%	7.97%
61312	Cranjectomy or craniotomy for evacuation of hematoma, supratentorial extradural or subdural	0.0	5.0	0.04%		0.0	10.9	1.19%	
63030	Laminotomy (Hemilaminectomy), for decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disk;	5.9	8.5	0.07%	12.88%	7.5	12.6	1.38%	18.65%
66984	one interspace, lumbar, unilateral Extracapsular cataract removal with insertion of intraocular lens prosthesis (one stage procedure),	3.5	7.3	0.06%	27.98%	6.4	12.2	1.34%	23.97%
92557	<pre>manual or phacoemulsification technique Basic comprehensive audiometry (92553 & 92556 combined), (Pure tone, air and bone, and speech, threshold and discrimination)</pre>	244.6	319.3	2.54%	9.29%	9.1	13.2	1.45%	13.02%
	Surgical Specialty Procedures-other	6,526.3	7,634.3	60.78%	5.37%	504.8	6.55.9	72.01%	9.12%
	All Surgical Specialty Procedures-other	10,429.9	12,560.2	100.00%	6.39%	673.6	910.8	100.00%	10.58%

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files.

Note (1): The Table includes all procedures which accounted for at least 1.5% of allowed charges for Surgical Specialty in any year between 1985 and 1988.

Note (2): Other surgical specialties include otolaryngologists, neurosurgeons, obstetrician-gyneocologists, plastic surgeons, hand surgeons, proctologists and all related osteopathic surgeons.



Table A.15 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985--1988 Multi-Specialty Clinics

HCPCS	Description	Total Total Allowed Allowed Services Services (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total T Allowed All Charges Cha	1988 Total Allowed Charges	% of 1988 Total Allowed Charges	Average Annual Growth
90040	Office medical service, established patient,	1,230.2	1,024.5	2.40%	-5.92%	\$18.5	\$17.0	1.05%	-2.92%
90050	Driet Service Office medical service, established patient,	2,773.8	3,229.0	7.55%	5.20%	52.0	71.9	4.45%	11.37%
09006	Infliced Selvice Office and ical service, established patient,	1,763.2	2,276.2	5.32%	8.88%	40.6	63.9	3.96%	16.31%
90070	Intermediate service Office medical service, established patient,	319.4	404.7	0.95%	8.21%	7.6	15.6	0.97%	17.11%
90220	extended service Initial hospital care, comprehensive history and examination, initiation of diagnostic and treatment	338.4	331.7	0.78%	-0.67%	22.8	26.1	1.62%	4.60%
90250	programs, and preparation of hospital records Subsequent hospital care, each day, limited	1,695.4	1,670.3	3.91%	-0.50%	37.2	45.7	2.83%	7.14%
90260	Service Subsequent hospital care, each day, intermediate	1,188.6	1,511.1	3.53%	8.33%	35.5	48.1	2.98%	10.63%
90515	service Emergency department service, new patient, intermediate	628.5	824.7	1.93%	9.48%	24.1	35.8	2.22%	14.03%
90517	service Emergency department service, new patient, extended	357.5	493.3	1.15%	11.33%	16.5	30.0	1.86%	22.14%
90520	Emergency department service, new patient, comprehensive	0.0	282.0	0.66%		0.0	19.9	1.23%	
90620	Initial consultation, comprehensive Extracapsular cataract removal with insertion of intraocular lens prosthesis (one stage procedure),	201.6	250.8 16.8	0.59%	7.55% 30.42%	16.0	23.8	1.47%	14.15%
71020	manual or phacoemulairication recinique Radiologic examination, chest, two views, frontal and	791.6	1,210.0	2.83%	15.19%	17.8	29.9	1.85%	18.88%
93000	Electronic Eco with at least 12 leads	628.9	589.4	1.38%	-2.14%	16.1	22.1	1.37%	11.02%
93010	Electrocardiogram, routine ECG with at least 12 leads interpretation and report only	2,329.9	3,153.7	7.38%	10.62%	22.5	38.6	2.40%	19.79%
	Other Multi-specialty group practice	19,969.8	25,492.8	59.62%	8.48%	738.0	1,098.8	68.12%	14.19%
	All Multi-specialty group practice	34,224.5	42,760.9	100.00%	7.71%	1,079.4	1,613.1	100.00%	14.33%

Source: Tabulations from the 1985 and 1988 BMAD Procedure Files. Note: The Table includes all procedures which accounted for at least 1.5% of allowed charges for Multi-Specialty Clinics in any year between 1985 and 1988.



Table A.16 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Radiology

		1985	1988	% of		1985	1988	* of	
				1000		1 1 1			
		Total	Total	1988	Average	Toral	Total	1988	Average
		Allowed	Allowed	Total	Annua1	Allowed	Allowed	Total	Annua1
HCDCS	urbes Description	Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
}		(in thousands)	isands)	Services		(in millions)	lions)	Charges	
				-					
71010	Radiologic examination, chest, single view, frontal	8,286.0	9,937.8	18.00%	6.25%	\$87.6	\$118.9	5.03%	10.74%
71020		9,153.0	10,614.3	19.22%	5.06%	146.0	188.4	7.97%	8.89%
74240	Radiologic examination, gastrointestinal tract;	672.3	527.2	0.95%	-7.79%	25.1	21.7	0.92%	-4.71%
	upper, with or without delayed films, without KUB								
74270	Radiologic examination, colon, barium enema	921.2	735.0	1.33%	-7.25%	34.4	30.1	1.27%	-4.33%
76091	Mammography, bilateral	598.8	1,735.2	3.14%	42.57%	26.7	88.4	3.74%	49.09%
78306	Bone imaging, whole body	455.4	278.0	0.50%	-15.17%	32.3	51.0	2.15%	16.39%
70450	Computerized axial tomography, head or brain w/o	541.7	861.1	1.56%	16.71%	43.8	86.2	3.64%	25.29%
	contrast material								
70460	Computerized axial tomography, head or brain with	271.5	187.0	0.34%	-11.69%	25.5	22.3	0.94%	-4.35%
	contrast material(s)					_			
70470	Computerized axial tomography, head or brain w/o	594.2	639.2	1.16%	2.46%	60.2	86.0	3.64%	12.65%
	contrast material, followed by contrast material(s)								
	and further sections								
71260	Computerized axial tomography, lumbar spine	111.3	500.9	0.36%	21.77%	12.6	28.1	1.19%	30.48%
	with contrast material								
72131	Computerized axial tomography, lumbar spine	118.7	203.6	0.37%	19.71%	12.9	29.3	1.24%	31.36%
	without contrast material								
74160	Computerized axial tomography, abdomen with	302.2	508.0	0.92%	18.91%	33.0	9.69	2.94%	28.31%
	contrast material								
74170	Computerized axial tomography, abdomen w/o contrast material, followed by contrast material(s) and	170.3	278.0	0.50%	17.76%	21.6	42.8	1.81%	25.59%
	further sections								
70551	Magnetic resonance (EG, proton) imaging, orbit, face	7.8	176.7	0.32%	182.94%	0.2	57.4	2.43%	518.71%
	and neck								
00/9/	Echography, abdominal, B-scan and/or real time with	630.4	748.0	1.35%	5.87%	36.6	51.8	2.19%	12.24%
	image documentation, complete								
77400	Daily megavoltage treatment management, simple	1,008.5	716.3	1.30%	-10.77%	29.4	26.5	1.12%	-3.34%
77405	Daily megavoltage treatment management, intermediate	1,390.3	1,154.3	2.09%	-6.01%	52.3	57.1	2.41%	2.98%
77410	Daily megavoltage treatment management, complex	1,015.2	1,269.9	2.30%	7.75%	47.0	81.3	3.44%	20.05%
	Other Radiology Procedures	24,811.3	24,442.8	44.278	-0.50%	861.2	1,228.5	51.93%	12.57%
	11 Badialam December	61 050 0	5E 212 E	100 008	3 64%	1 588 3	2 365 5	100 00%	14 20%
		0.000,100	0.012/00			5.00012			

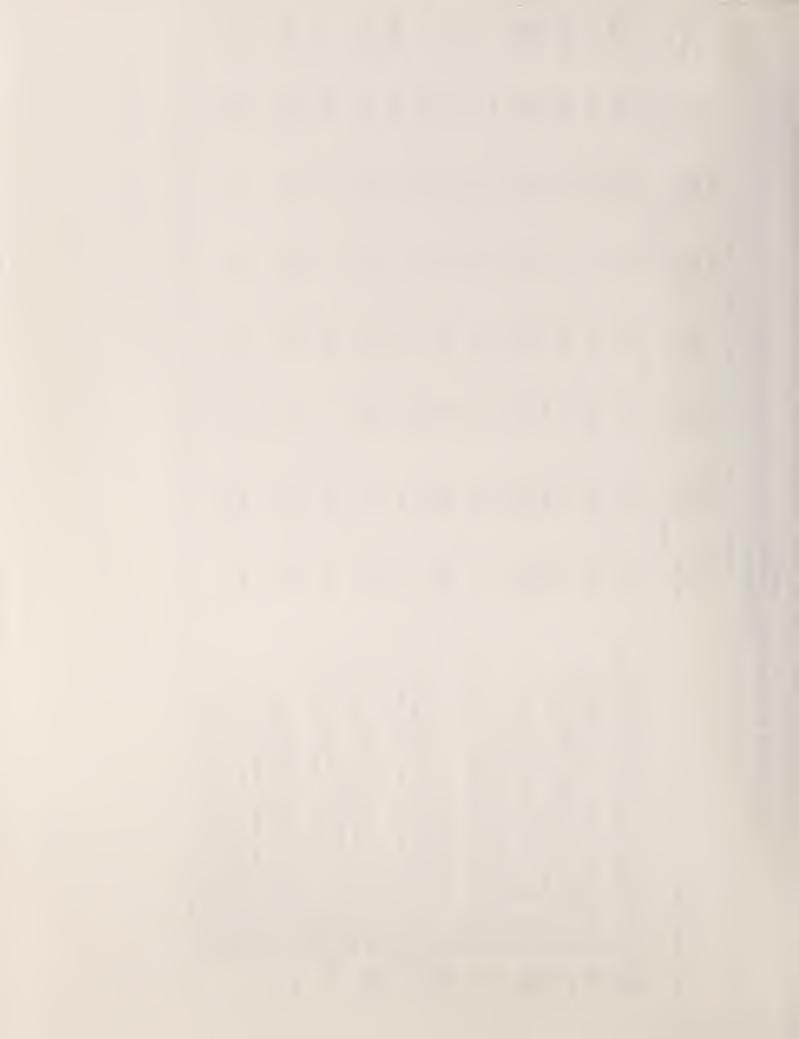
Source: Tabulations from the 1985 and 1988 BWAD Procedure Files.

Note: The Table includes all procedures which accounted for at least 1.5% of allowed charges for Radiology in any year between 1985 and 1988.



Table A.17 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Pathology/Laboratory

		4		,				,	
		1985	1988	# O		1985	1988	% of	
		Total	Total	1988	Average	Total	Total	1988	Average
		Allowed	Allowed	Total	Annual	Allowed	Allowed	Total	Annua1
HCPCS	Description	Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
		(in thousands)	isands)	Services		(in millions)	110ns)	Charges	
		, 100	4 cos r	7 03%	90 038	0 13	\$ 233 E	0	800
36415	Routine venipuncture for collection of specimen(s)	7.756,1	F. 200',	876.1	1 08%	94.0	1.0	0.17%	20.00
80018	Automated multichannel test, 1/-10 cimical chemistry test	F			•	2			. 4
80019	Automated multichannel test, 19 or more clinical	8,292.2	10,398.9	10.55%	7.84%	82.1	122.1	9.63%	14.148
	chemistry tests								
80500	Clinical pathology consultation, limited, without	267.0	784.8	0.80%	43.24%	9.6	18.0	1.42%	47.578
	review of patient's history and medical records								
81000	Urinalysis, with microscopy	2,262.2	2,895.2	2.94%	8.57%	11.6	14.1	1.11%	€.80%
82643	Digoxin, RIA	2.906	1,363.9	1.38%	14.58%	18.2	27.5	2.17%	14.67%
82947	Glucose, except urine (eg, blood, spinal fluid,	2,305.4	2,261.2	2.30%	-0.64%	13.2	12.8	1.01%	-1.07%
	joint fluid)	į				,			1
83718	Lipoprotein high density cholesterol (HDL	472.9	2,533.4	2.57%	74.97%	5.1	28.5	2.24%	77.18%
	cholesterol) by precipitation method				;	•	;	•	
83720	Lipoprotein cholesterol fractionation calculation by	22.5	1,801.3	1.83%	330.81%	0.3	30.1	2.37%	345.62%
	formula								
84436	Thyroxine, true (TT-4), RIA	1,358.9	1,363.9	1.38%	0.12%	14.1	24.3	1.92%	20.01%
84443	Thyroid stimulating hormone (TSH), RIA or EIA	438.6	1,160.9	1.18%	38.33%	10.6	29.5	2.30%	40.34%
85025	Blood count, hemogram and platelet count, automated,	0.0	3,893.3	3.95%		0.0	45.0	3.55%	
	and automated complete differential WBC count (CBC)								
85022	Blood count, hemogram, automated and differential	2,581.0	1,990.0	2.02%	-8.30%	21.3	16.6	1.31%	-8.02%
	WBC count (CBC)								
85028	Blood count	1,013.2	1.9	0.00%	-87.75%	10.8	0.02	0.00%	-87.40
88302	Surgical pathology, gross and microscopic	591.0	454.3	0.46%	-8.39%	14.8	12.8	1.01%	-4.88
	examination of presumptively abnormal tissue(s), for								
	identification and record purposes								
88304	Surgical pathology, gross and microscopic	1,448.1	2,086.3	2.12%	12.94%	44.7	17.2	880.9	19.98
	examination of presumptively abnormal tissue(s),								
	uncomplicated specimen								
88305	Surgical pathology, gross and microscopic	922.1	1,490.6	1.51%	17.36%	43.6	89.9	7.08%	27.28
	examination of presumptively abnormal tissue(s),								
	single complicated or multiple uncomplicated								
	specimen(s), without complex dissection								
88307	Surgical pathology, gross and microscopic examination of presumptively abnormal tissue(s),	308.6	467.0	0.47%	14.81%	20.3	39.3	3.09%	24.60
	single complicated specimen requiring complex								
	dissection or multiple complicated specimens								



Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Table A.17 (Continued) Pathology/Laboratory

		1985	1988	% of		1985	1988	% of	
		Total	Total	1988	Average	Total	Total	1988	Average
		Allowed	Allowed	Total	Annual	Allowed	Allowed	Total	Annua1
HCPCS	HCPCS Description	Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
		(in thousands)	ısands)	Services		(in millions)	lions)	Charges	
88309	Surgical pathology, gross and microscopic	171.2	250.3	0.25%	13.50%	\$15.1	\$28.6	2.26%	23.86%
	complex diagnostic problem with or without extensive								
88331	dissection and surgery, with frozen	230.0	322.5	0.33%	11.92%	11.5	21.2	1.67%	22.38%
	sections(s), single specimen								
	Other Pathology/Laboratory Tests	37,942.2	54,539.5	55.36%	12.86%	421.5	598.6	47.17%	12.41%
	All Pathology/Laboratory Tests	63,514.6	98,525.9	100.00%	15.76%	1.677	1,269.0	100.00%	17.66%
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								

Source: Tabulations from the 1985 and 1988 BWAD Procedure Files.

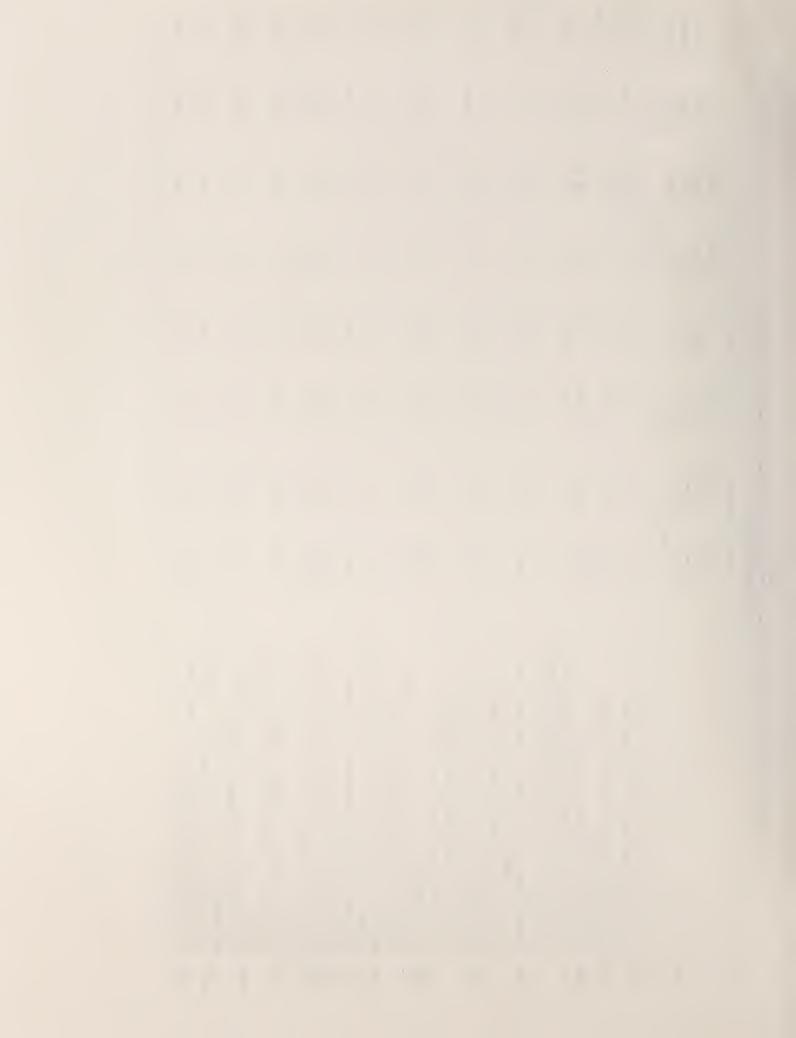
Note (1): The Table includes all procedures which accounted for at least 1.5% of allowed charges for Pathology/Laboratory in any year between 1985 and 1988.

Note (2): The 1987 editing CPT-4 eliminated code 85028 and directed physicians to use codes 85023-85025. This explains the major changes in use of these codes. There was also a substantial change in the description of procedure 85022, which may explain the reduction in its use.



Table A.18 Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Other Non-Physicians

1988 Ave Total Allowed Charges 1.97% 2 16.19% 16.19% 16 1.57% 16 1.47% 11 1.47% 1 1.47% 1 3.48% 1 3.48% 1 1.56%			1985	1988	% of		1985	1988	% of	
Description			Total	Total	1988	Average	Total	Total	1988	Average
Services Alloned Growth Charges Alloned Charges Alloned Charges Char			Allowed	Allowed	Total	Annua1	Allowed	Allowed	Total	Annual
In thousands	HCPCS		Services	Services	Allowed	Growth	Charges	Charges	Allowed	Growth
Office medical service, established patient, 300.5 638.6 2.181 -3.418 \$17.2 \$18.7 2.284 filted service, setablished patient, 312.6 628.6 2.181 22.433 7.5 16.4 1.974 2 18.17 2.284 filted services actablished patient, and createst 2.26 5.64.4 1.274			(in thou	sands)	Services		lim mi)	lions)	Charges	
Interestable activities and a service setablished patient, 342.6 628.6 2.184 22.434 7.5 16.4 1.974 1	90050	Office medical service, established patient,	930.5	838.5	2.91%	-3.41%	\$17.2	\$18.7	2.24%	2.86%
Decition and decision of equivalent contractions and co		limited service								
Intermediation of spine by chitopractor 22.6 364.4 1.27h 152.49h 104.4 115.7h 16	09006	Office medical service, established patient,	342.6	628.6	2.18%	22.43%	7.5	16.4	1.97%	29.99%
Panightation of spinoptaction and evaluation and evaluation and evaluation of spinoptaction of spinoptactic and treatment program, incrementation of manipactic and treatment program, incrementation and decisions of manipactic and treatment program, incrementation and decisions of manipactic and programs of manipactic and treatment of mails, spinoptactic and programs of mails and manipactic and mand manipactic and manipactic and manipactic and manipactic and ma		intermediate service								
1.57h 1.57	A2000	Manipulation of spine by chiropractor	7,085.6	7,628.6	26.50%	2.49%	104.4	135.2	16.19%	8.99%
program, comprehensive, established patient, one or opthaleological sevices: medical examination and sevial sevices: medical examination and sevial sevices: medical examination and disposed continuation of disposed continuation of disposed continuation of sevial sevices: medical examination and sevial sevices: medical examination of disposed continuation of sevial sevices: medical examination of disposed continuation of sevial sevices: medical examination and sevial sevices: medical examination and sevial sevices: medical examination of sevial sevices: medical sevices none sevial sevices 10.9	92004	Ophthalmological services: medical examination and evaluation, with initiation of diagnostic and treatment	22.6	364.4	1.27%	152.49%	0.7	13.1	1.57%	161.51%
per visits: which included a samination and evaluation, with initiation or continuation of established patient program, intermediate, established patient program, contension of evaluation and evaluation and evaluation of the continuation of dispropertie and treatment program, compension, or expension of		program, comprehensive, established patient, one or								
99.9 dynamical services; medical services medical services medical services medical services medical services services; medical services medical services of services medical services medical services of services; medical services of services; medical services of services; minintermediate, services; minintermediate, services; minintermediate, services; medical examination of diagnostic and treatment program, comprensive, services; medical examination of diagnostic and terminate program, comprensive, services; medical examination of diagnostic and drainage of shoress (eg. carbuncle, 266.9 294.9 1.024 3.384 7.9 9.5 11.14 6.57 1.074 1.024		more visits								
displayed patient displayed patient displayed patient displayed patient which initiation or continuation of evaluation, with initiation or continuation of evaluation, with initiation or continuation of displayed patient optibulished patient permiss, purchases from evaluation, with initiation or continuation of evaluation, with initiation or continuation of displayed to with initiation or continuation of from evaluation, with initiation or continuation of evaluation, with initiation or continuation of evaluation, with initiation or continuation of from evaluation, with initiation of continuation of stablished patient from evaluation of the program or comprehence ascholished patient from evaluation of the program or continuation of stablished patient from evaluation of the program or continuation of the program of	92012	Opthalmological services: medical examination and	6.65	492.2	1.71%	101.82%	1.5	14.2	1.70%	112.07%
displosite and treatment program, intermediate, optbalmological services: medical examination and established patient optbalmological services: medical examination and established patient optbalmological services: medical examination and established patient, one or more visits established patient, one or more visits stranss, perchases assiblished patient, one or more visits freames, perchases freision and drainage of abscess (eg, carbuncle, subcutamencus baccesses), simple freision and drainage of mychia or paronychia, single freision and drainage or paronychia, single freision, freision of mail matrix, partial or complete, simple freision, freision of mail matrix, partial or fremoval flammatroe Operation, one toe (e., interphalangeal flammatroe Operation, with or without freision, flammatic or paronychia		evaluation, with initiation or continuation of								
stabilished patient of established patient of evaluation and evaluation, with initiation or continuation of evaluation, with initiation or continuation of dagnostic and treatment program, compensive, established patient, one or more visites frames, purchases replicated and treatment program, compensive, stabilished patient, one or more visites frames, purchases replicated or compensive, subcutaneous abscesses (9, carbumcle, 266.9 294.9 1.02% 3.38% 7.9 9.5 11.4% 1.04% 1.05% abputation of dainage of dascess (9, carbumcle, 266.9 294.9 1.02% 3.38% 7.9 9.5 11.4% 1.04% 1.00% abputations abscesses), simple for circular control or simple for stensive eccematous or infected 307.3 428.2 1.49% 11.69% 7.2 12.3 1.47% 1.00% abbut demand of mails for permanent chails, manual five or lass (63.6 1.154, 4 4.01% 1.93% 11.10% 2.00% 3.12% 2.05% 2.06% 1.159% 2.06% 1.00% 3.12% 2.00% 3.12% 2.00% 3.12% 2.00% 3.10% 3.0		diagnostic and treatment program, intermediate,								
optalmological services: medical examination and another located assumation and advances: medical examination and advances: medical examination and advances: medical examination of diagnostic and treatment program, comprensive, sertablished patient, one or more visits reases, substances as escensive, sertablished patient, one or more visits reases, substances as services; more visits reases; eq. carbuncle, 266.9 294.9 10.2% 3.3% 7.9 9.5 11.4% 11.6% 11.6% 11.6% 11.4% 11.6% 11.		established patient								
disquostic with initiation of complexity of disquostic and treatment program comprensive, established patient, one or more visits remes, purchases remains and delayed patient, one or more visits remes, purchases remains and delayed patient, one or more visits remes, purchases remains and delayed patient, one or more visits remes, purchases remains of extensive described by the cutaneous or suppure tive hidradenitis, and other cutaneous or suppure tive hidradenitis, and other cutaneous or suppure tive nifected soft on your partial or paromychia, single or simple care material or complete care material or complete, simple behindement of nails, electric grinder five or less follows and patient of nail plate, partial or complete, simple follows and patient patients and nail matrix, partial or complete, simple complete (eq., ingrown or deformed nail) for permanent removal remova	92014	Opthalmological services: medical examination and	37.4	691.7	2.40%	164.55%	1.2	23.6	2.83%	173.28%
disposite and treatment program, comprensive, Frames, purchases Frames, partial or complete, partial or complete, simple Frames, partial or complete, partial or complete, partial or complete, simple Frames, purchases Frames, partial or purchases Frames, partial or purchases Frames, purchases Frames, purchases Frames, partial or purchases Frames, purchases Fr		evaluation, with initiation or continuation of								
Frames, purchases set of more visits Incision and drainage of abscess (eg, carbuncle, 266.9 294.9 1.02% 3.38% 7.9 9.5 1.14% 9.5 1.14% Suppurative hidradenticis, and other cutaneous or simple or simple or paronychia, single stin up to 10% of body surface Debriddement of nails, manual five or less 63.6 1,154.4 4.01% 19.38% 13.1 26.0 3.12% 2.85% 7.28% 9.06% 15.9 2.95% 9.06% 15.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2		diagnostic and treatment program, comprensive,								
Frames, purchases 1.07% 6.04% 2.8 13.1 1.57% 6		established patient, one or more visits								
Incision and drainage of abscess (eg, carbuncle, suppressive hidradenitie, and other cutaneous or subcutaneous abscesses); simple frotision and drainage of onychia or paronychia, single 279.0 359.6 1.25\$ 8.82\$ 8.0 11.9 1.42\$ 11.65\$ 11.65\$ 11.69\$ 11.50\$ 11.69\$ 11.50\$ 11.72\$ 11.53\$ 11.47\$ 11.69\$ 11.69\$ 11.50\$ 11.69\$ 11.60\$ 1	V2020	Frames, purchases	6.07	307.5	1.07%	63.04%	2.8	13.1	1.57%	66.31%
suppurative hidradenitis, and other cutameous or subcutameous observative hidradenitis, and other cutameous or subcutameous abscesse), simple Incision and drainage of onychia or paronychia, single or simple bebridement of nails, manual five or less 678.6 1,154.4 4.01\$ 19.38\$ 13.1 26.0 3.12\$ 2.91\$ bebridement of nails, manual five or less 663.6 8 733.9 2.55\$ 9.06\$ 15.9 23.5 2.81\$ single Excision of nail plate, partial or complete, simple Excision of nail matrix, partial or complete (e.g. ingrown or deformed nail) for permanent removal Hammertce Operation, one toe (e.g. interphalangeal Hallux valgus (Bunion) correction, with or without sesamoidectomy keller, McBride or Mayo type procedure Secand decreases of the control of the	10060	Incision and drainage of abscess (eg, carbuncle,	566.9	294.9	1.02%	3.38%	7.9	9.5	1.14%	6.58%
subcutameous abscesses), simple or paronychia, single or simple or subcutameous abscesses), simple or simple behindement of extensive eczematous or infected and drainage of onychia or paronychia, single or less of 65.6 819.4 2.85\$ 7.28\$ 13.1 26.0 3.12\$ 1.47\$ 1.88		suppurative hidradenitis, and other cutaneous or								
Incision and drainage of onychia or paronychia, single 279.0 359.6 1.25% 8.82% 8.0 11.9 1.42% 1 or simple core anatous or infected 307.3 428.2 1.49% 11.69% 7.2 12.3 1.47% 1 skin up to 10% of body surface contacts of 678.6 1,154.4 4.01% 19.38% 13.1 26.0 3.12% 2 bebridement of nails, mental five or less 663.6 819.4 2.85% 9.06% 14.0 18.3 2.19% 2.81% 1 single five or less 663.6 819.4 2.85% 9.06% 15.9 2.81% 1 or complete, simple 565.8 733.9 2.55% 9.06% 15.9 2.81% 1 or complete (eq. ingrown or deformed nail) for permanent removal Hammertoe Operation, one toe (eq. interphalangeal 36.6 49.7 0.17% 10.82% 10.0 13.7 1.64% 1 led lux valgus (Bunion) correction, with or without 15.3 17.1 0.06% 3.84% 8.5 10.6 1.27% sesamoidectomy keller, MeBride or Mayo type procedure 560.3 1.95% 1.95% 1.95% 11.9 13.0 1.56%		subcutaneous abscesses), simple								
or simple but of extensive eczematous or infected skin up to 10% of body surface bebridement of nails, manual five or less 663.6 1,154.4 4.01% 19.38% 13.1 26.0 3.12% 2.19% Avails on finals, manual five or less 663.6 1,154.4 4.01% 19.38% 13.1 26.0 3.12% 2.19% Avails on final five or less 663.6 1,154.4 4.01% 19.38% 13.1 26.0 3.18% 13.1 10.18 13.1 10.18% 13.1 10.18% 13.1 10.18% 13.1 10.18% 13.1 10.18% 13.1 10.1 10.18% 13.1 10.1 10.1 10.1 13.1 10.1 10.1 13.1 10.1 10	10100	Incision and drainage of onychia or paronychia, single	279.0	359.6	1.25%	8.82%	8.0	11.9	1.42%	14.18%
Debridement of extensive eczematous or infected 307.3 428.2 1.49% 11.69% 7.2 12.3 1.47% 1 Skin up to 10% of body surface bebridement of so body surface Debridement of nails, manual five or less Debridement of nails, electric grinder five or less Explain of nails, electric grinder five or less Avulsion of nail plate, partial or complete, simple Excision of nail plate, partial or less nail plate, partial nail nail plate, partial nail nail nail nail nail nail nail n		or simple								
Skin up to low or less Skin up to les	11000	Debridement of extensive eczematous or infected	307.3	428.2	1.49%	11.69%	7.2	12.3	1.47%	19.46%
Debtidement of nails, manual five or less 663.6 1,194 4 4.01\$ 12.8\$ 13.1 26.0 3.12\$ 2.19\$ Mobridement of nails, electric grinder five or less 663.6 19.94 2.85\$ 7.28\$ 14.0 18.3 2.19\$ 2.19\$ Availation of nail plate, partial or complete, simple Excision of nail and nail matrix, partial or complete (eg, ingrown or deformed nail) for permanent Excision of nail and nail matrix, partial or complete (eg, ingrown or deformed nail) for permanent Excision of nail and nail matrix, partial or complete (eg, ingrown or deformed nail) for permanent Excision of nail and nail matrix, partial or complete (eg, ingrown or deformed nail) for permanent Excision of nail and nail matrix, partial or nail		skin up to 10% of body surrace	į							;
Debridement of nails, electric grinder five or less 663.6 819.4 2.85\$ 7.28\$ 14.0 18.3 2.19\$ Avulsion of nail plate, partial or complete, simple 565.8 733.9 2.55\$ 9.06\$ 15.9 23.5 2.81\$ 1 single Excision of nail and nail matrix, partial or complete (eg, ingrown or deformed nail) for permanent removal Hammertoe Operation, one toe (eg, interphalangeal	11700	Debridement of nails, manual five or less	678.6	1,154.4	4.01%	19.38%	13.1	26.0	3.12%	25.89%
Avulation of nail plate, partial or complete, simple 565.8 /33.9 2.55\$ 9.06\$ 15.9 23.5 2.81\$ 1 single single single single said to said the said and nail matrix, partial or complete (eg, ingrown or deformed nail) for permanent removal Harmentoe Operation, one toe (eg, interphalangeal 36.6 49.7 0.17\$ 10.82\$ 10.0 13.7 1.64\$ 1 fusion. filleting, phalangectomy) (separate procedure) Hallux valgus (Bunion) correction, with or without 15.3 17.1 0.06\$ 3.84\$ 8.5 10.6 1.27\$ sesamoidectomy keller, McBride or Mayo type procedure 566.1 560.3 1.95\$ -0.35\$ 11.9 13.0 1.56\$	11710	Debridement of nails, electric grinder five or less	663.6	819.4	2.85%	7.28%	14.0	18.3	2.19%	9.42%
Excision of nail and nail matrix, partial or computed (eg, ingrown or deformed nail) for permanent removal removal removal fusion, filleting, phalangectomy) (separate procedure) Hallux valgus (Bunion) correction, with or without sesamoidectomy keller, McBride or Mayo type procedure 566.1 560.3 1.95% 11.9 11.9 11.9 13.0 1.56%	11730	Avulsion of nail plate, partial or complete, simple	565.8	733.9	2.55%	890.6	15.9	23.5	2.81%	13.81%
Excision of nail and nail matrix, partial or computed (eq. ingrown or deformed nail) for permanent removal Harmortoe (eq. interphalangeal 36.6 49.7 0.17% 10.82% 10.0 13.7 1.64% 1 1.64% 1 1.00% 3.84% 8.5 10.6 1.27% 1.27% 1.27% 1.95% 11.95% 11.9 13.0 1.56% 1.56% 1.56% 1.95% 11.95% 11.9 11.9 13.0 1.56%		single	:	!			;	;		
complete (eg, ingrown or deformed nail) for permanent removal Hammertoe (eg, interphalangeal 36.6 49.7 0.17% 10.82% 10.0 13.7 1.64% 1 1.64% 1 1.00 13.7 1.64% 1 1.000 13.7 1.64% 1 1.000 13.7 1.64% 1 1.27% 1 1.000 17.1 0.06% 3.84% 8.5 10.6 1.27% 1.	11/20	Excision of nail and nail matrix, partial or	142.6	185.5	0.64%	9.18%	19.4	79.0	3.48%	14.44%
Hammertoe Operation, one toe (eg, interphalangeal 36.6 49.7 0.17% 10.82% 10.0 13.7 1.64% 1 16 the manner to operation, one toe (eg, interphalangeal 36.6 49.7 0.17% 10.82% 10.0 13.7 1.64% 1 1.64% 1 1.27% 1 1.27% 1 1.27% 1 1.27% 1 1.27% 1 1.27% 1 1.95% 1 1		complete (eg, ingrown or deformed nail) for permanent								
Hammertoe Operation, one toe (eg, interphalangeal 36.6 49.7 0.17% 10.82% 10.0 13.7 1.64% 1 fusion, filleting, phalangectomy) (separate procedure) procedure) procedure) Halluc (Bunion) correction, with or without 15.3 17.1 0.06% 3.84% 8.5 10.6 1.27% sesamoidectomy keller, McBride or Mayo type procedure 566.1 560.3 1.95% 11.9 13.0 1.56%		removal		,	Î	•	•	,	,	•
fusion, filtering, phalangectomy) (separate procedure) procedure) 15.3 17.1 0.06% 3.84% 8.5 10.6 1.27% plantocedure) sesamoidectomy keller, McBride or Mayo type procedure 566.1 560.3 1.95% 11.9 13.0 1.56% Non-covered service by podiatrist	58787	Hammertoe Operation, one toe (eg, interphalangeal	36.6	49.1	0.178	10.82%	10.0	13.7	1.64%	11.05%
Force of the contection, with or without 15.3 17.1 0.06% 3.84% 8.5 10.6 1.27% sesamoidectomy keller, McBride or Mayo type procedure 566.1 560.3 1.95% -0.35% 11.9 13.0 1.56%		tusion, iliteting, phaiangectomy/ (separate procedure)								
sesamoidectomy keller, McBride or Mayo type procedure 566.1 560.3 1.95% -0.35% 11.9 13.0 1.56% Non-covered service by podiatrist	28292	Hallux valgus (Bunion) correction, with or without	15.3	17.1	0.06%	3.84%	8.5	10.6	1.278	7.79%
Non-covered service by podiatrist 566.1 560.3 1.95% -0.35% 11.9 13.0 1.56%		sesamoidectomy keller, McBride or Mayo type procedure		}						
	A9160	Non-covered service by podiatrist	566.1	560.3	1.95%	-0.35%	11.9	13.0	1.56%	3.01%
						:		ı		



Growth in Services and Allowed Charges for Individual Procedures, by Specialty, 1985-1988 Table A.18 (Continued) Other Non-Physicians

HCPCS	HCPCS Description	1985 Total T Allowed All Services Serv (in thousands)	1988 Total Allowed Services	% of 1988 Total Allowed Services	Average Annual Growth	1985 Total T Allowed All Charges Cha	1988 Total Allowed Charges	% of 1988 Total Allowed Charges	Average Annual Growth
71010	71010 Radiologic examination, chest, single view	175.8	309.2	1.07%	20.71%	\$6.5	\$12.0	1.44%	22.73%
73620 R0070	Ifoncal 73620 Radiological examination, foot R0070 Transportation of portable x-ray equipment and personnel to home or nutsing home, per trip to facility or location, one patient seen	376.1 267.5	408.7	1.42%	2.81%	10.0	12.4 25.1	1.48%	7.25%
	Non-Physician Procedures-other	8,238.6	12,122.8	42.11%	13.74%	237.2	383.3	45.90%	17.36%
	All Non-Physician Procedures-other	21,129.1	28,791.8	100.00%	10.87%	518.8	835.1	100.00%	17.20%
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Source: Tabulations from the 1985 and 1988 BWAD Procedure Files.

Note (1): The Table includes all procedures which accounted for at least 1.5% of allowed charges for Non-physicians in any year between 1985 and 1988.

Note (2): Non-physicians consist of chiropractors, optometrists, podiatrists, oral surgeons and portable x-ray suppliers.

Note (3): The large increases in ophthalmological services reflect the expansion of optometrist services in the 1986 OBRA legislation which were effective April 1, 1987.





